	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING FORM 3 AMENDED REPORT												
			APPLICATIO	N FOR F	PERMIT TO DRILL				1. WELL NAME and N	UMBER ORA FEDER	RAL 3-1-7-	19	
2. TYPE OF WORK DRILL NEW WELL REENTER P&A WELL DEEPEN WELL DEEPE						3. FIELD OR WILDCAT BRENNAN BOTTOM							
4. TYPE O	F WELL	DRILL NEW WE				WELL			5. UNIT or COMMUNI	TIZATION A	GREEME	NT NAM	E
6. NAME C	F OPERATOR	<u> </u>	Oil Well		d Methane Well: NO				7. OPERATOR PHONE				
8. ADDRES	SS OF OPERAT	ΓOR	BI	LL BARRE	IT CORP				303 312-8134 9. OPERATOR E-MAIL				
10. MINER	AL LEASE NUI		099 18th Stree		D, Denver, CO, 80202	SHIP			tfalla	ng@billbarr	ettcorp.co	m	
	, INDIAN, OR				CEN	DIAN STATE	FE	E 💮		DIAN 🔵	STATE () FE	E
13. NAME	OF SURFACE	OWNER (if box 1		ROBERT C	ONRAD				14. SURFACE OWNE	R PHONE (i 8018656		'fee')	
15. ADDRI	ESS OF SURF	ACE OWNER (if b		00 WEST	MURRAY, UT 84107				16. SURFACE OWNE	R E-MAIL (i	f box 12 =	'fee')	
17. INDIAN	N ALLOTTEE C	OR TRIBE NAME			18. INTEND TO COMM		N FROM		19. SLANT				
(if box 12	= 'INDIAN')				MULTIPLE FORMATION YES (Submit C	NS Commingling Applica	ition) NO	0	VERTICAL DI	RECTIONAL	— но	RIZONT	AL 🔵
20. LOCA	TION OF WEL	L		FO	OTAGES	QTR-QTR	SE	CTION	TOWNSHIP	RAN	IGE	MERIDIAN	
LOCATIO	N AT SURFAC	E		665 FNL	. 1900 FWL	NENW		1	7.0 S	19.0) E		S
Top of U	ppermost Pro	ducing Zone		665 FNL	. 1900 FWL	NENW		1	7.0 S 19.0 E				S
At Total	Depth			665 FNL	. 1900 FWL	NENW		1	7.0 S 19.0 E			S	
21. COUN	TY	UINTAH			22. DISTANCE TO NEA	REST LEASE LINE	(Feet)		23. NUMBER OF ACRES IN DRILLING UNIT				
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2559					26. PROPOSED DEPTH MD: 9169 TVD: 9169								
27. ELEVA	TION - GROU	ND LEVEL 4910		1	B. BOND NUMBER WYB000040			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645				E	
					Hole, Casing	, and Cement In	formatio	n					
String	Hole Size	Casing Size	Length	Weigh	Grade & Thread	Max Mud Wt			Cement		Sacks	Yield	Weight
COND	26	16	0 - 80	65.0	Unknown	8.7			No Used		0	0.0	0.0
SURF	12.25	8.625	0 - 1700	24.0	J-55 ST&C	8.7		Halliburto	on Light , Type Unk	nown	290	3.16	11.0
							Н	alliburton	Premium , Type Ur	nknown	270	1.36	14.8
PROD	7.875	5.5	0 - 9169	17.0	P-110 LT&C	9.5			Unknown		680	2.31	11.0
					<u> </u>				Unknown		370	1.42	13.5
					Α'	TTACHMENTS							
	VE	RIFY THE FOLL	OWING ARE	ATTAC	HED IN ACCORDAN	ICE WITH THE UT	ΓΑΗ OIL	AND GAS	CONSERVATION	SENERAL	RULES		
⊯ wi	ELL PLAT OR I	MAP PREPARED E	BY LICENSED S	URVEYOR	R OR ENGINEER	∠ co	MPLETE [DRILLING P	LAN				
I ✓ AF	FIDAVIT OF ST	ATUS OF SURFA	CE OWNER AG	REEMENT	(IF FEE SURFACE)	FOF	FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) TOPOGRAPHICAL MAP													
NAME Brady Riley TITLE Permit Analyst						yst		PHONE 3	303 312-8115				
SIGNATURE DATE 02/20/2014					1		EMAIL br	iley@billbarrettcorp.co	om				
API NUMBER ASSIGNED APPROVAL 43047543040000							B	acqill					
								Pe	rmit Manager				

BILL BARRETT CORPORATION <u>DRILLING PLAN</u>

Aurora Federal 3-1-7-19

NENW, 665' FNL and 1900' FWL, Section 1, T7S-R19E, SLB & M (surface hole) NENW, 665' FNL and 1900' FWL, Section 1, T7S-R19E, SLB & M (bottom hole) Uintah County, Utah

1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

<u>Formation</u>	Depth – MD/TVD
Green River	4,755'
Mahogany	5,824'
Lower Green River*	6,964'
Douglas Creek	7,073
Black Shale	7,685
Castle Peak	7,788'
Uteland Butte	8,110'
Wasatch*	8,669'
TD	9,169'

*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 1691'

3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment					
0 – 1700'	No pressure control required (may pre-set 8-5/8" with smaller rig)*					
1700' – TD	11" 5000# Ram Type BOP					
11" 5000# Annular BOP						
- Drilling spool to a	accommodate choke and kill lines;					
- Ancillary equipme	ent and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in					
accordance with the	accordance with the requirements of onshore Order No. 2;					
- The BLM and the	- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in					
advance of all BOP pressure tests.						
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up						
To operate most e	fficiently in this manner.					

^{*}See Appendix A

4. <u>Casing Program</u>

Hole Size	SETTING DEPTH (FROM) (TO)		Casing Size	Casing Weight	<u>Casing</u> Grade	Thread	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1700'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	TD	5 ½"	17#	P-110	LT&C	New

Bill Barrett Corporation Drilling Program Aurora Federal 3-1-7-19 Uintah County, Utah

5. <u>Cementing Program</u>

16" Conductor Casing	Grout
8 5/8" Surface Casing	Lead: 290 sx Halliburton Light Premium with additives
	mixed at 11.0 ppg (yield = $3.16 \text{ ft}^3/\text{sx}$) circulated to surface
	with 75% excess. TOC @ Surface
	Tail: 270 sx Halliburton Premium Plus cement with
	additives mixed at 14.8 ppg (yield = $1.36 \text{ ft}^3/\text{sx}$), calculated
	hole volume with 75% excess. TOC @ 1200'
5 ½" Production Casing	Lead: 680 sx Tuned Light cement with additives mixed at
	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). TOC @ 1200'
	Tail: 370 sx Halliburton Econocem cement with additives
	mixed at 13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). Top of cement to
	be determined by log and sample evaluation; estimated TOC
	@ 7185'

6. <u>Mud Program</u>

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0'-1700'	8.3 - 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud
				Fluid System
1700' – 5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid
				System
5500' – TD	9.4 - 9.5	42 – 56	25 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4529 psi* and maximum anticipated surface pressure equals approximately 2512 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

^{*}Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

^{**}Maximum surface pressure = A - (0.22 x TD)

Bill Barrett Corporation Drilling Program Aurora Federal 3-1-7-19 Uintah County, Utah

9. <u>Auxiliary Equipment</u>

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be from:

43-2505, (t37379): McKinnon Ranch Properties, LC

43-12345 (F78949): Dale Anderson 43-10664 (A38472): W. E. Gene Brown

49-1645 (A35800): RN Industries, Inc.

49-2336 (t78808): RN Industries, Inc.

43-8496 (A53617): A-1 Tank Rental

43-10288 (A65273): Nile Chapman (RNI)

49-2247 (F76893): Magnum Water Service

43-8875 (t38762): Four Star Ranch (c/o David Yeman)

11. Drilling Schedule

Location Construction: DEC 2014 Spud: DEC 2014

Duration: 15 days drilling time 6 days completion time

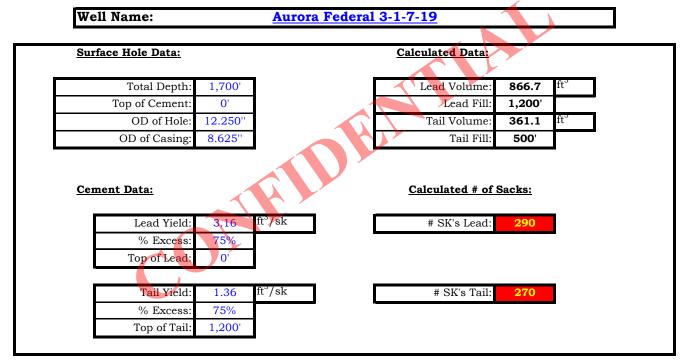
12. Appendix A

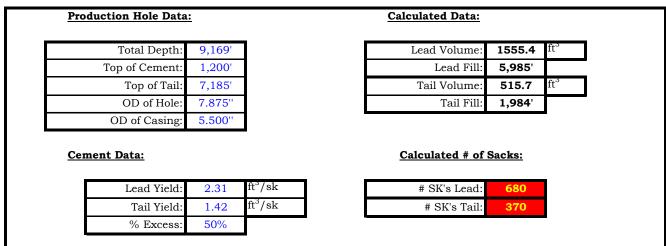
18-5/8": asing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line on the rig
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits



AURORA CEMENT VOLUMES





Aurora Federal 3-1-7-19 Proposed Cementing Program

Job Recommendation		Su	rface Casing
Lead Cement - (1200' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	1,200'	
	Volume:	154.36	bbl
	Proposed Sacks:	290	sks
Tail Cement - (TD - 1200')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft ³ /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	1,200'	
	Calculated Fill:	500'	
	Volume:	64.32	bbl
	Proposed Sacks:	270	sks

Job Recommendation		Produc	ction Casing
Lead Cement - (7185' - 1200')			
Tuned Light TM System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft ³ /sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	1,200'	
	Calculated Fill:	5,985'	
	Volume:	277.00	bbl
	Proposed Sacks:	680	sks
Tail Cement - (9169' - 7185')			
Econocem TM System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	7,185'	
	Calculated Fill:	1,984'	
	Volume:	91.83	bbl
	Proposed Sacks:	370	sks

RECEIVED: February 27, 2014

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

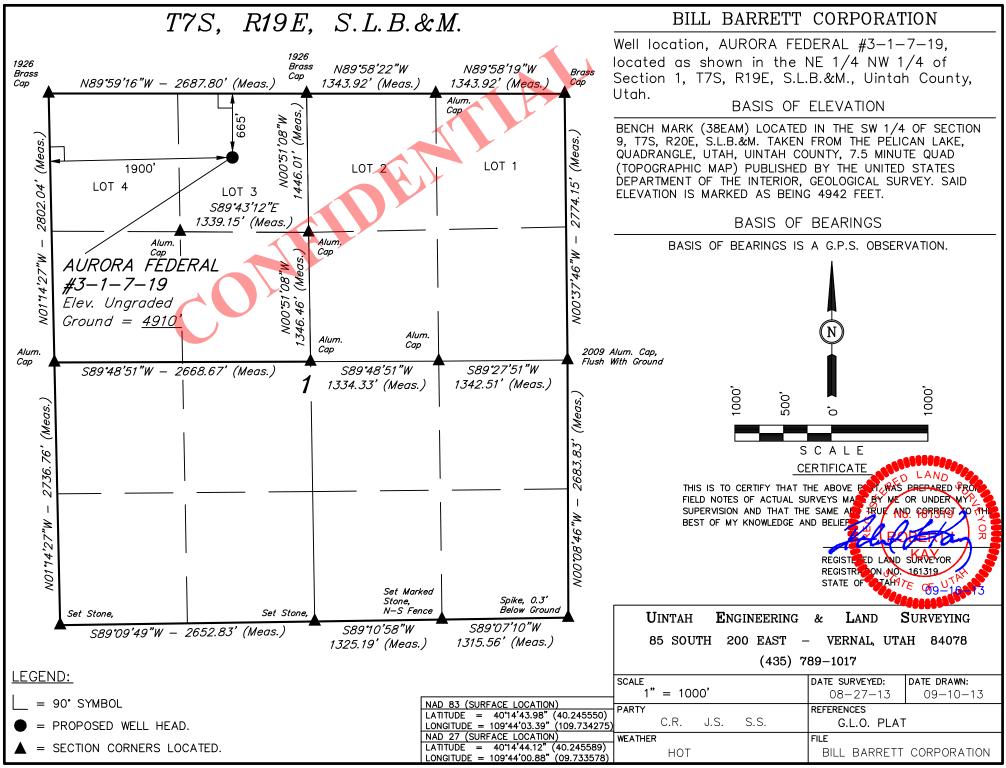
A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



BILL BARRETT CORPORATION

AURORA FEDERAL #3-1-7-19

LOCATED IN DUCHESNE COUNTY, UTAH SECTION 1, T7S, R19E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

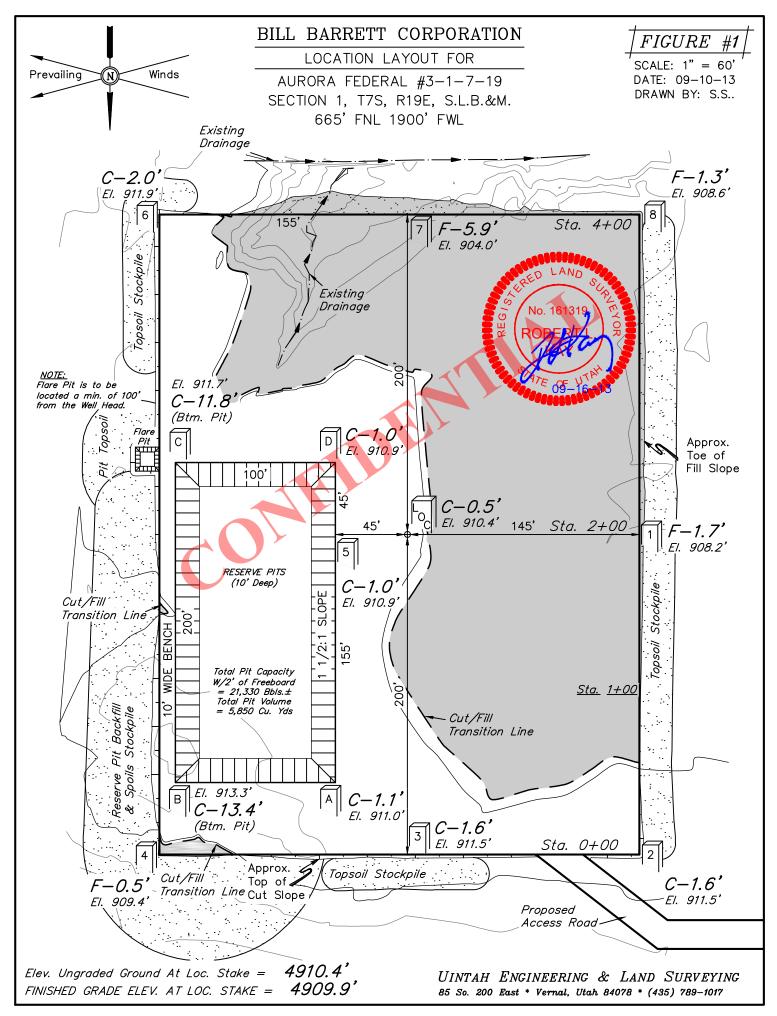


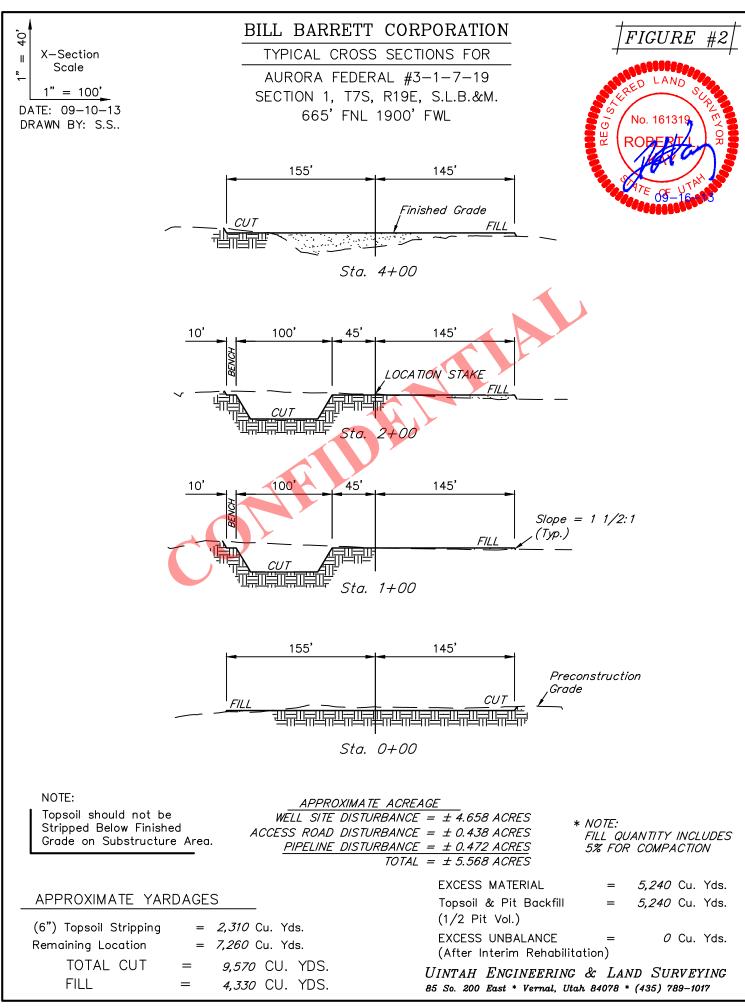
PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

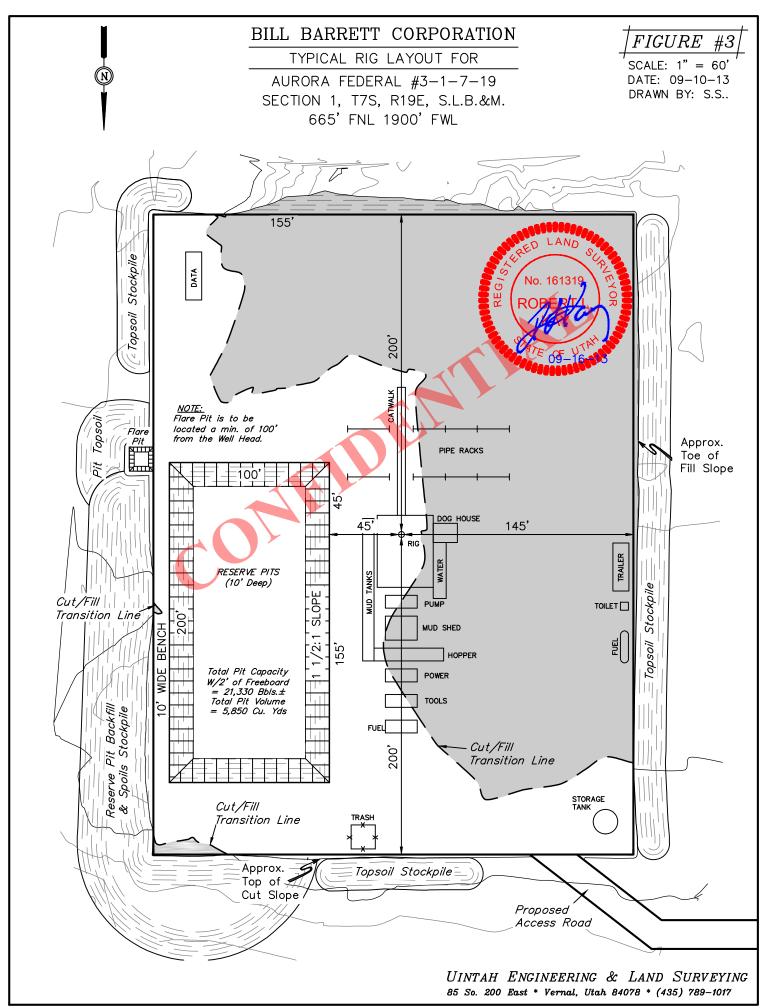
CAMERA ANGLE: EASTERLY







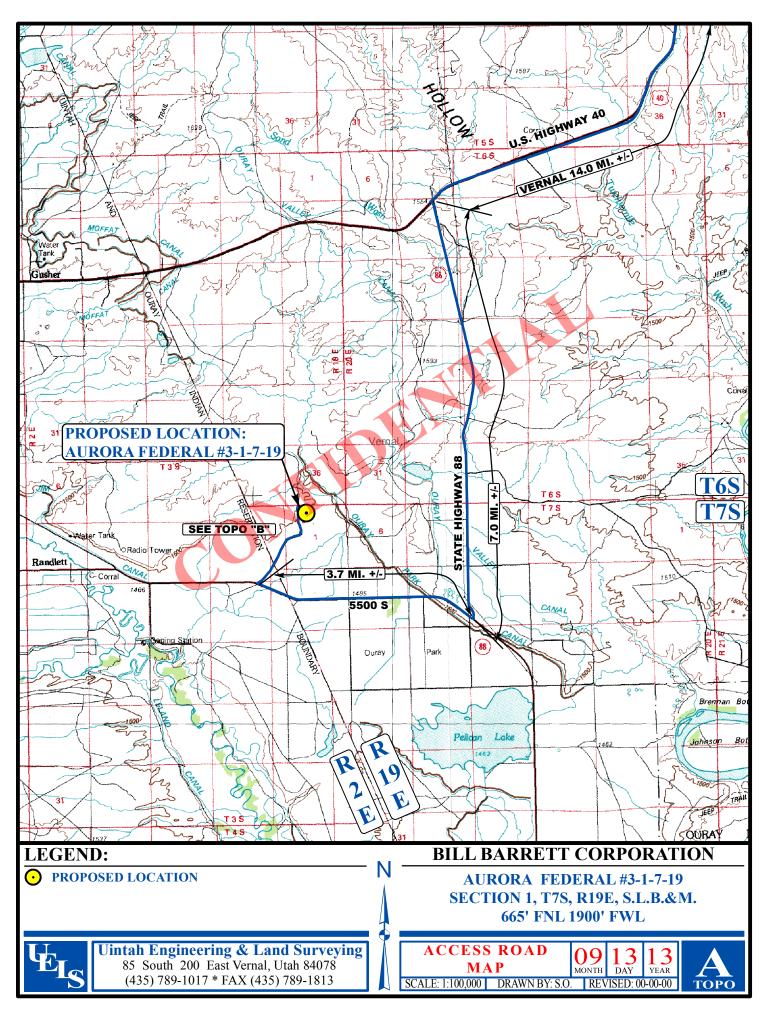


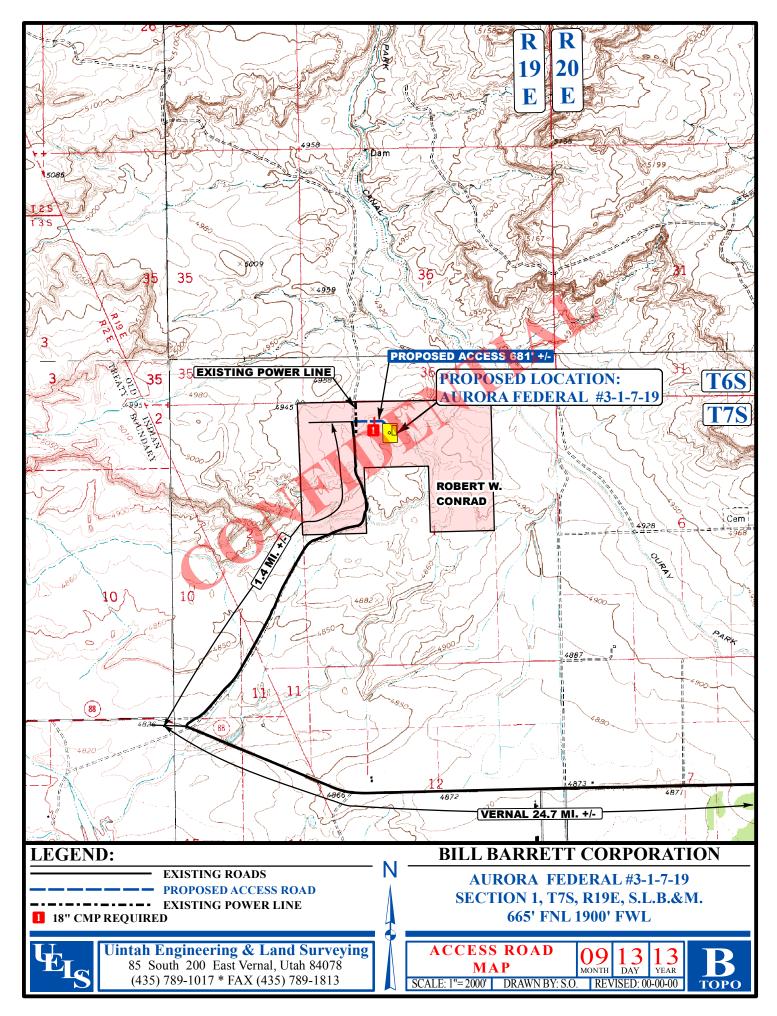


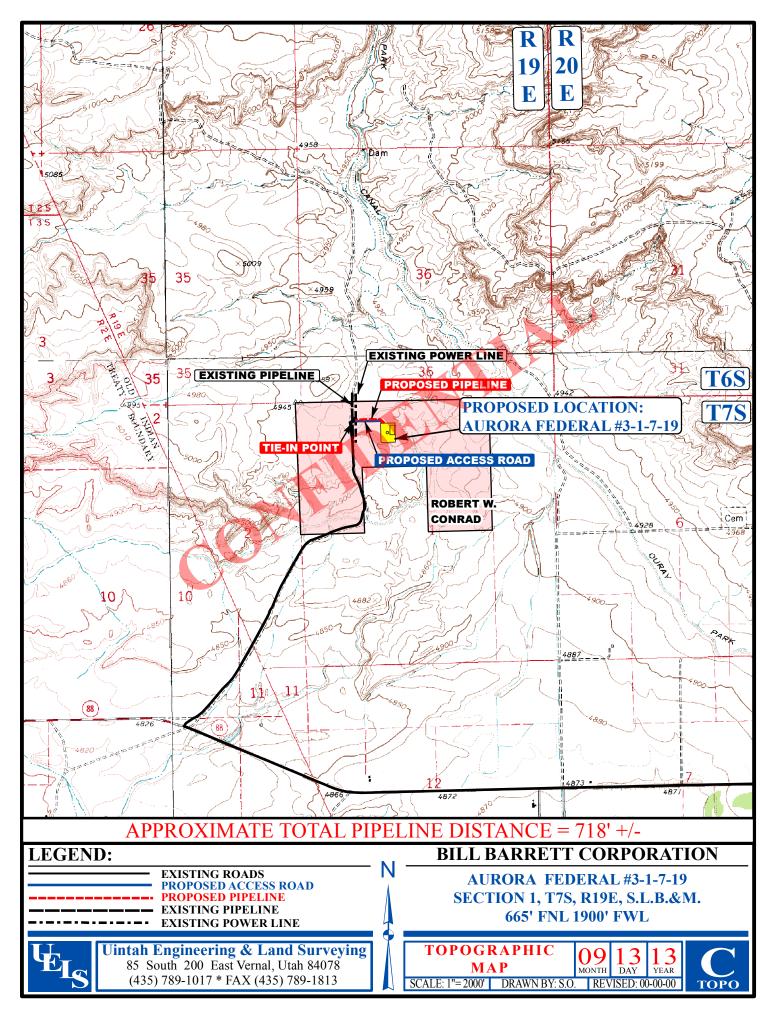
BILL BARRETT CORPORATION AURORA FEDERAL #3-1-7-19 SECTION 1, T7S, R19E, S.L.B.&M.

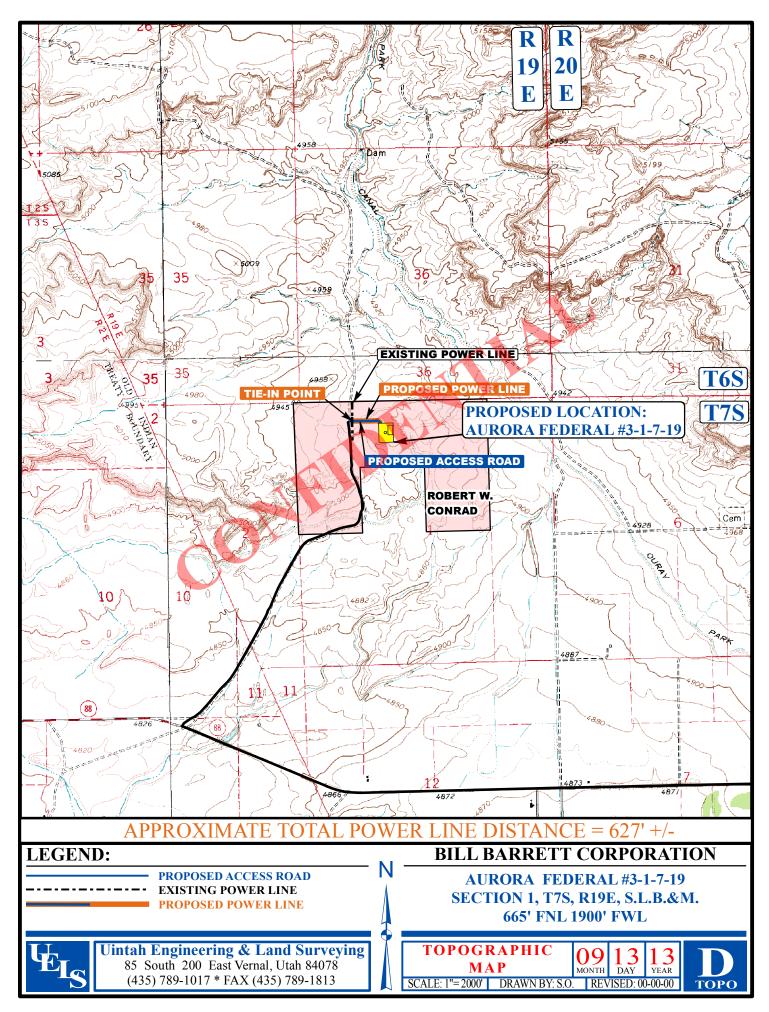
PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 7.0 MILES TO JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 3.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST: TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD EASTERLY, SOUTHEASTERLY **FLAGS** IN AN THEN DIRECTION APPROXIMATELY 681' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 26.2 MILES.









MEMORANDUM OF SURFACE USE AGREEMENT

State of Utah)(
County of Uintah)(

Entry 2013011041
Book 1357 Page 909-910 \$12.00
15-NOV-13 09:58
RANDY SIMMONS
RECORDER, UINTAH COUNTY, UTAH
ENCORE LAND SERVICES INC
PO BOX 1729 VERNAL, UT 84078
Rec By: SYLENE ACCUTTOROOP , DEPUT)

Entry 2013011041 Book 1357 Page 909

For Ten Dollars (\$10.00) and other adequate consideration, Robert W. Conrad of 5510 South 300 West, Murray, UT 84107, hereafter referred to as "Surface Owner" has granted, a Surface Use Agreement, to Bill Barrett Corporation of 1099 18th Street, #2300, Denver, CO 80202, hereafter referred to as "Bill Barrett", dated November 1, 2013, for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from Aurora Federal 3-1-7-19 on the following land (the "Lands") in Uintah County Utah: A tract of land lying in the N/2NW/4 of Section 1, Township 7 South, Range 19 East, SLM, Uintah County, as further described on Exhibit "A" attached hereto and made a part hereof.

The Surface Use Agreement is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Use Agreement.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 8 day of November, 2013.

SURFACE OWNER:

Robert W. Conrad

ACKNOWLEDGMENT

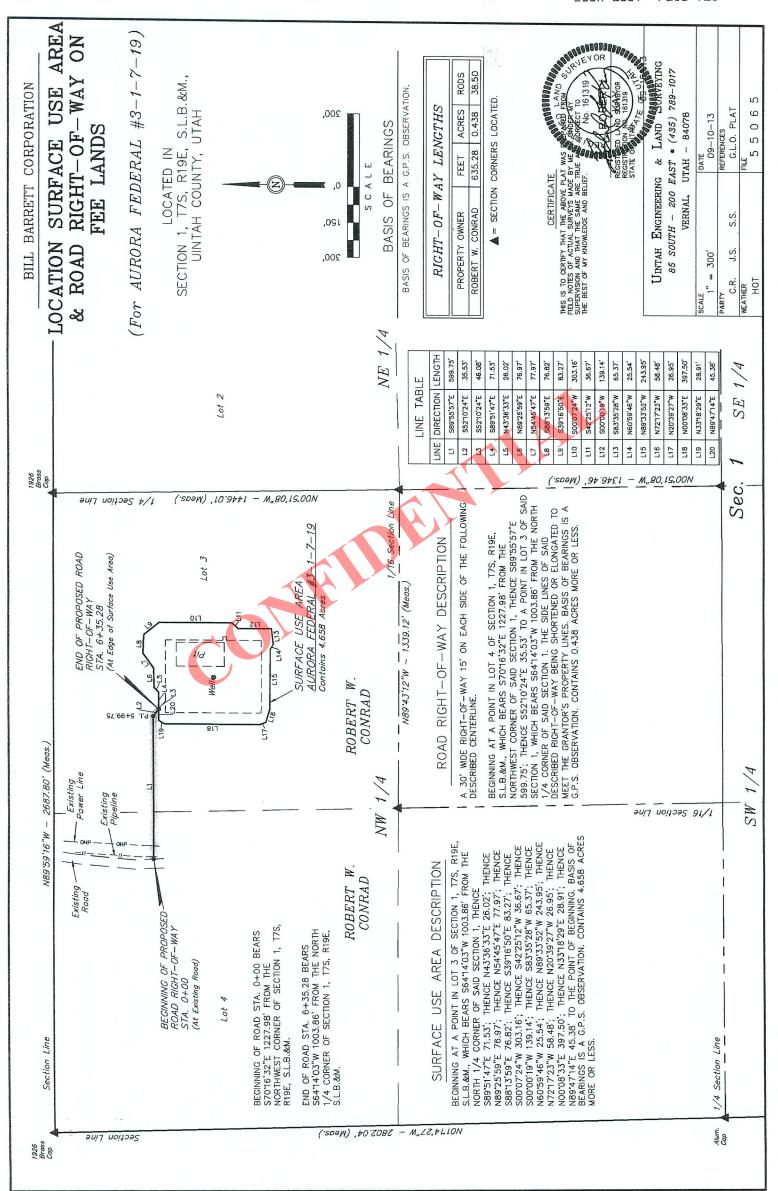
STATE OF UTAH } S COUNTY OF UINTAH }

Kersel Hall

OTARY PUBLIC

Residing at: Ulvinn County, Utan





SURFACE USE AGREEMENT (Aurora Federal 3-1-7-19)

THIS AGREEMENT _ Dated November 1, 2013 by	and between					
Robert W. Conrad						
whose address is 5510 South 300 West Murray, UT 84107 phone (801-865-6221)	, hereinafter referred to as "Surface Owner", and					
Bill Barrett Corporation and its Subsidiaries , whose address is	1099 18 th Street, #2300, Denver, CO 80202					
hereinafter referred to as "Operator".						
WITNESSETH:						
WHEREAS, Surface Owner represents that they are the owners in fee and in postfollowing described lands inUintah County,Utah						
A Tract of land lying in the N/2NW/4, Section 1, Township 7 South, Range 19 East, SLM, as further described on Exhibit "A" attached hereto and made a part hereof.						
WHEREAS, Operator has or will acquire certain leasehold interests within the Lands and proposes to conduct drilling and subsequent production operations o	ne next five (5) years in the oil and gas mineral estate in on the Lands; and					
WHEREAS, Surface Owner is generally aware of the nature of the operati covering the mineral estate of the Lands; and	ions which may be conducted under oil and gas leases					
WHEREAS, the parties believe that it is in their mutual best interest to agree operations of Operator on the premises in the exploration for, development and produthe terms of those certain oil and gas leases now owned or which may be acquired by Lands; and,	action of oil, gas and/or other leasehold substances under					
WHEREAS, the parties believe that a reasonable estimate can be made development and production operations contemplated by such oil and gas leases.	of the damages which will result from the exploration,					

NOW, THEREFORE, in consideration of ten dollars and other valuable consideration, the sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Operator has the right of ingress and egress and to the use of those portions of the Lands which it requires for oil and gas exploration, development and production operations, including tank batteries and other production facilities and the transportation of produced substances from the leasehold, and also the right to construct and use roads and pipelines across portions of the Lands. Operator shall pay Surface Owner as liquidated damages the following sum as full settlement and satisfaction of all damages growing out of, incident to, or in connection with the usual and customary exploration, drilling, completion, sidetracking, reworking, equipping and production operations, contemplated by the oil and gas leases covering the Lands, unless otherwise specifically provided herein:

Power in a Row win we reconstructed as A Separate Agreement with Moon Lake Electric, Asser2. Operator agrees to consult with the surface owner and/or tenant as to all routes of ingress and egress. Prior to the construction of Javaany roads, pipelines, tank battery installations, or installation of any other equipment on the leased premises, Operator shall consult with the surface owner and/or tenant as to the location and direction of same.

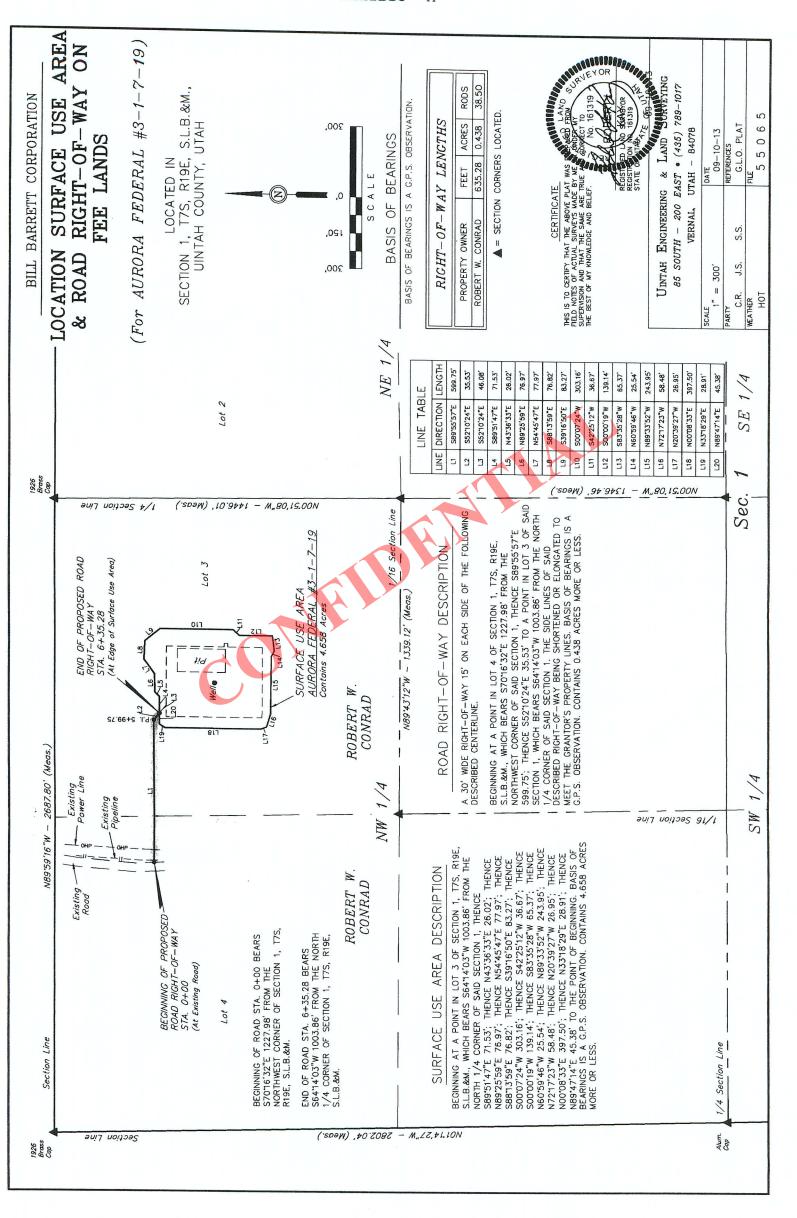
- 3. It is the intentic use as little interference with farming operations on the leased premises as reasonably possible, including but specifically not limited to the operation of any pivotal irrigation sprinkler system, or any other irrigation method. If any circular irrigation sprinkler system is in use at the time of initial drilling operations on the leased premises, then any subsequent production equipment, including but specifically not limited to pump jacks, hydraulic lifting equipment, or any other equipment necessary to produce any oil or gas from such well, shall be recessed to such depths, or ramps constructed, so as to allow the continued use of such circular irrigation system.
- 4. In the event any well hereunder is plugged and abandoned, Operator agrees that Operator will, within a reasonable time, restore Surface Owner's surface estate as near as practical to its original condition found prior to Operator's operations. It is understood and agreed that Surface Owner may elect in writing, prior to cessation of operations of Operator, to have any road constructed under the terms of this Agreement remain upon the property, in which event Operator agrees to leave such road or roads in reasonable condition.
 - 5. Operator is responsible for acquiring all necessary permits, licenses, fees, etc. incident to its operations on the Lands.
- 6. In the event Surface Owner considers that Operator has not complied with all its obligations hereunder, both express and implied, Surface Owner shall notify Operator in writing, setting out specifically in what respects Operator has breached this contract. Operator shall then have sixty (60) days to meet or commence to meet all or any part of the breaches alleged by Surface Owner. The service of said notice shall be precedent to the bringing of any action by Surface Owner for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Operator. In the event of litigation, the prevailing party's reasonable attorney's fees will be paid by the opposing party.
- 7. Operator shall be responsible and shall remain liable for any environmental problems on the subject lands which are caused by or through its operations. To the extent that any such claims are asserted, Operator will be responsible for any remediation required as provided by state regulations. This assumption of liability, however, does not include any third-party operations on the subject lands or any Surface Owner actions which could cause environmental problems but is limited solely to the actions of Operator. Operator hereby indemnifies and holds harmless Surface Owner from any and all environmental problems it causes on the Lands.

- 8. In the event Surface Owner owns less than the entire fee interest in the Lands, then any payment stated herein shall be proportionately reduced to the interest owned.
- 9. This Agreement shall remain in full force and effect from the date hereof and for so long thereafter as Operator's oil and gas operations affecting the Lands are in effect.
- 10. When the word "Operator" is used in this Agreement, it shall also mean the successors and assigns of Operator, including but not limited to its employees and officers, agents, affiliates, contractors, subcontractors and/or purchasers.
 - 11. This Agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties.

ADDITIONAL PROVISIONS:

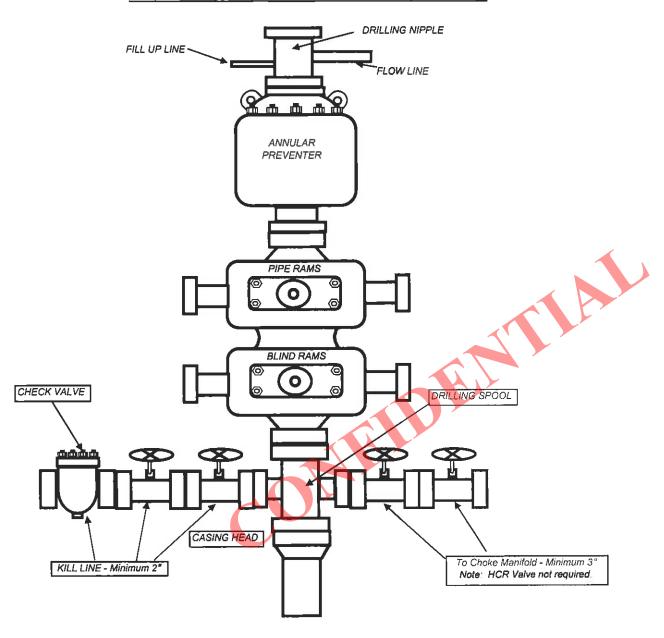
SURFACE OWNER: Cohert W Course By: Robert W. Conrad	
OPERATOR: Bill Barrett Corporation	
Mitchell J. Reneau, Vice President – Land	
STATE OF UTAN COUNTY OF UNTAH	ACKNOWLEDGMENT
personally appeared Robert W. Conrad , known to be	blic in and for said County and State, on this
JENNIFER HALL Notary Public State of Utah Comm. No. 662029 My Comm. Expires Jan 3, 2017	Residing at: VERNAL WAN WINTH COLLING
	ACKNOWLEDGMENT
STATE OF COLORADO } } SS	
CITY & COUNTY OF DENVER }	
known, who, being sworn, did say that they are the Vie	, 2013, before me the undersigned authority, appeared Mitchell J. Reneau , to me personally ce President – Land for Bill Barrett Corporation, and that the foregoing instrument was signed in behalf of to me that said instrument to be the free act and deed of the partnership.
	NOTARY PUBLIC
	Residing at:

EXHIBIT "A"



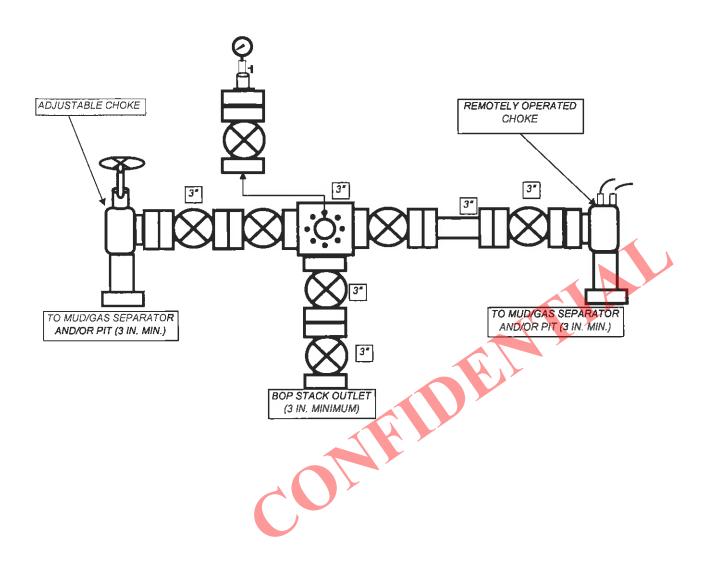
BILL BARRETT CORPORATION

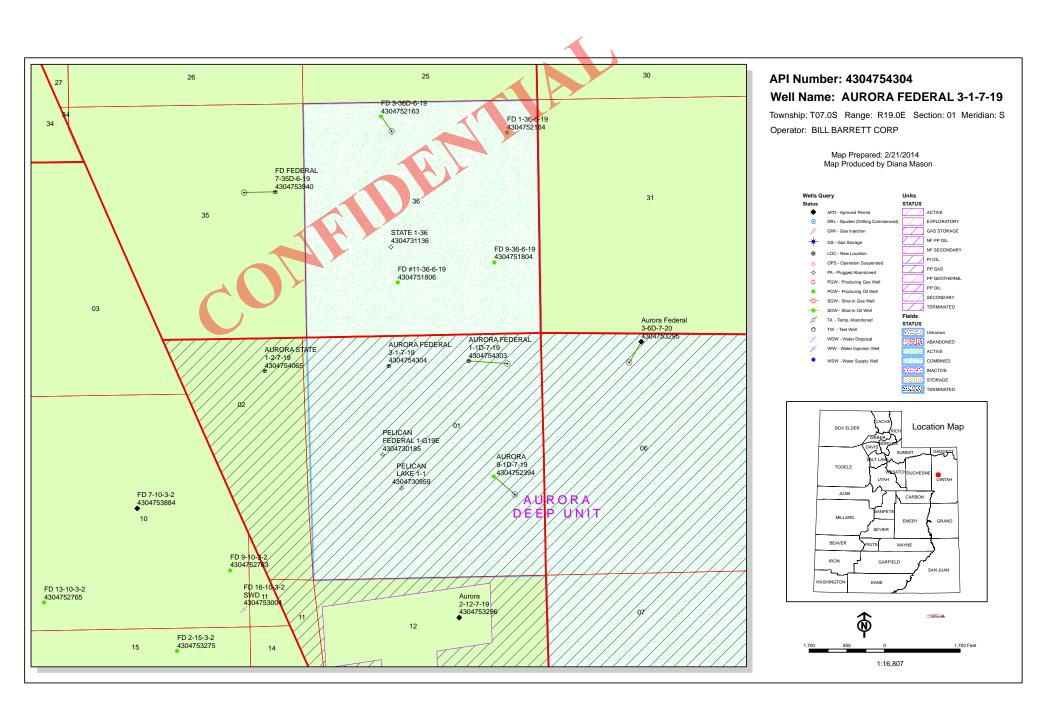
TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office 440 West 200 South, Suite 500 Salt Lake City, UT 84101

IN REPLY REFER TO: 3160 (UT-922)

February 24, 2014

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Aurora (Deep) Unit,

Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Aurora (Deep) Unit, Uintah County, Utah.

API # WELL NAME LOCATION

Proposed PZ (GREEN RIVER-WASATCH)

43-047-54303 AURORA FEDERAL 1-1D-7-19 Sec 01 T07S R19E 0596 FNL 1635 FEL BHL Sec 01 T07S R19E 0675 FNL 0765 FEL

43-047-54304 AURORA FEDERAL 3-1-7-19 Sec 01 T07S R19E 0665 FNL 1900 FWL BHL Sec 01 T07S R19E 0665 FNL 1900 FWL

Please be advised that effective November 11, 2013, the Aurora (Deep) Unit contracted to lands in or entitled to be in a participating area. The final participating area boundaries are still being determined. Our preliminary discussions with the unit operator indicate that the subject wells will not be in the contracted unit area.

This office has no objection to permitting the wells at this time.





June 3, 2014

Utah Division of Oil, Gas and Mining Attention: Dustin Doucet 1594 West North Temple, Suite 1120 Salt Lake City, UT 84116

RE: Commingling Notice

East Bluebell Area

<u>Aurora Federal 3-1-7-19</u>

NENW, Section 1 T7S-R19E

Uintah County, Utah

Dear Mr. Doucet,

Bill Barrett Corporation (BBC) has submitted Notices to commingle production from the Wasatch and Green River Formations in the subject well located in East Bluebell Area. BBC has notified all owners of oil and gas leases contiguous to the drilling unit.

Should you require additional information in this regards, please feel free to contact me at 303-312-8164. Your earliest attention to this matter is appreciated.

Sincerely,

Kevin T. Funk

Land Technician II

BILL BARRETT CORPORATION

Enclosures



AFFIDAVIT OF NOTICE

My name is Kevin T. Funk. I am a Land Technician II with Bill Barrett Corporation (BBC). BBC has submitted Sundry Notices to commingle production from the Wasatch and Green River formations in the following well within our East Bluebell Field:

Aurora Federal 3-1-7-19 NENW Section 1 T7S-R19E

Bill Barrett Corporation has notified all owners in lands contiguous to drilling unit. The Lessees are listed below.

Lessees:

Crescent Point Energy Corporation Robert Bayless Producer, LLC

Date: June 3, 2014 Affiant

Kevin T. Funk

Land Technician II

BILL BARRETT CORPORATION

RECEIVED: June 04, 2014



June 4, 2014

Robert Bayless Producer, LLC Mr. Cranford Newell 621 17th Street, Suite 2300 Denver, CO 80293

RE: Commingling Application

<u>Aurora Federal 3-1-7-19</u>

Uintah County, UT

Dear Mr. Newell,

Bill Barrett Corporation has submitted an application to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the application together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

Should you require additional information in this regards, please feel free to contact me at 303-312-8164. Your earliest attention to this matter is appreciated.

Sincerely,

Kevin T. Funk

Land Technician II

BILL BARRETT CORPORATION

Enclosures

RECEIVED: June 04, 2014



June 4, 2014

Crescent Point Energy Corporation Ms. Nicole Bailey 555 17th Street, Suite 1800 Denver, CO 80202

RE: Commingling Application
<u>Aurora Federal 3-1-7-19</u>
Uintah County, UT

Dear Ms. Bailey,

Bill Barrett Corporation has submitted an application to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the application together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

Should you require additional information in this regards, please feel free to contact me at 303-312-8164. Your earliest attention to this matter is appreciated.

Sincerely,

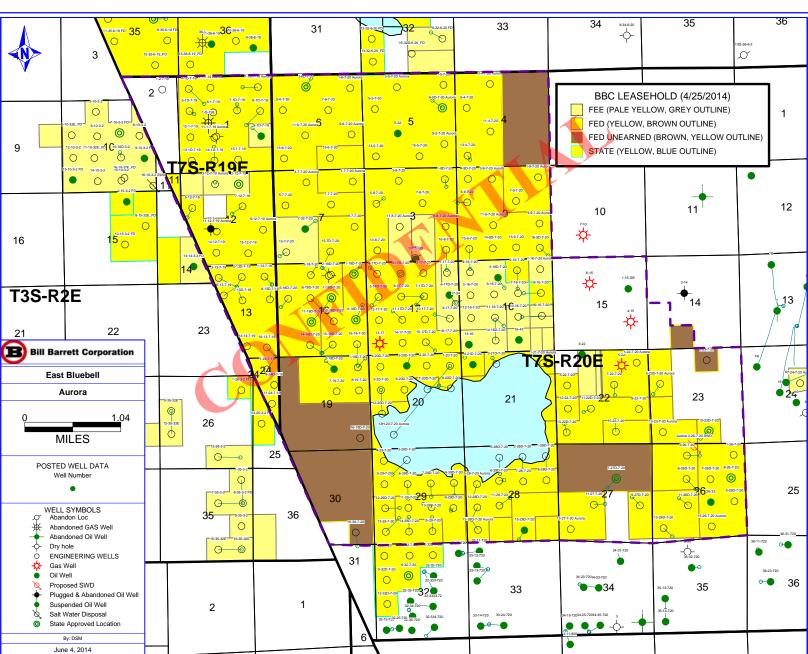
Kevin T. Funk

Land Technician II

BILL BARRETT CORPORATION

Enclosures

RECEIVED: June 04, 2014



PETRA 6/4/2014 9:45:34 AM

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator BILL BARRETT CORP

Well Name AURORA FEDERAL 3-1-7-19

API Number 43047543040000 APD No 9416 Field/Unit BRENNAN BOTTOM

Location: 1/4,1/4 NENW **Sec** 1 **Tw** 7.0S **Rng** 19.0E 665 FNL 1900 FWL **GPS Coord (UTM)** 607654 4455781 **Surface Owner** ROBERT CONRAD

Participants

Jim Burns (permit contractor), Zack Garner (BBC), Cody Rich (surveyor), Joe Via (EIS), Amy Ackman (archeologist), Nate Packer and Christine Cimiluca (BLM), Jennifer Hall (landman), Robert Conrad (surface owner)

Regional/Local Setting & Topography

This proposed well location sits approximately midway between Highway 88 and Randlett, Ut about 3.5 miles north west of Pelican Lake. To the south there are scattered irrigated crop fields but the area is mostly sparsely vegetated high desert shrub land. There are scattered dry washes and small hills with some exposed sand stone ledge rock. This proposed well pad sits on a flat bench but drops off on the east side.

Surface Use Plan

Current Surface Use

Wildlfe Habitat

New Road
Miles

Well Pad
Src Const Material
Surface Formation

0.13 Width 300 Length 400 Offsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

High desert shrub land consisting of mainly small sage brush and some sparse grasses Antelope habitat

Soil Type and Characteristics

Sandy clay loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? Y

minor drainage diversions needed

RECEIVED: June 26, 2014

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ra	nking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	20	1 Sensitivity Level

Characteristics / Requirements

The reserve pit as proposed is 200' x 100' x 10' deep and is placed in a cut stable location. Bill Barrett Corporation typically uses a 20 mil liner and this will adequate for the site. It appears this pit will require a good deal of blasting.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Evaluator	Date / Time
Richard Powell	3/11/2014

RECEIVED: June 26, 2014

API Well Number: 43047543040000

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner CBM
9416	43047543040000	LOCKED	OW	P No
Operator	BILL BARRETT CORP		Surface Owner-APD	ROBERT CONRAD
Well Name	AURORA FEDERAL 3-1	-7-19	Unit	AURORA (DEEP)
Field	BRENNAN BOTTOM		Type of Work	DRILL
Location	NENW 1 7S 19E S	665 FNL	1900 FWL GPS Coord	
Location	(UTM) 607663E 4455	5782N		

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill **APD Evaluator**

3/17/2014 **Date / Time**

Surface Statement of Basis

This proposed well is mixed estate with federal minerals and fee surface owned by Robert Conrad. Mr. Conrad attended this presite inspection and stated that he has no objections to drilling at this site and that Bill Barrett Corporation has been cooperative with him in the selection of this and other proposed well sites on the Conrad land. The reserve pit as proposed will be in a cut and stable location. According to BBC representative Zack Garner a 16 mil minimum liner and felt sub liner will be used. This liner program will be adequate for this site. This appears to be a good site for placement of this well.

Richard Powell
Onsite Evaluator

3/11/2014 **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: June 26, 2014

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/20/2014

WELL NAME: AURORA FEDERAL 3-1-7-19 OPERATOR: BILL BARRETT CORP (N2165)

CONTACT: Brady Riley

PROPOSED LOCATION: NENW 01 070S 190E

SURFACE: 0665 FNL 1900 FWL

BOTTOM: 0665 FNL 1900 FWL

COUNTY: UINTAH LATITUDE: 40.24557

UTM SURF EASTINGS: 607663.00

FIELD NAME: BRENNAN BOTTOM

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU76488

SURFACE OWNER: 4 - Fee

API NO. ASSIGNED: 43047543040000

PHONE NUMBER: 303 312-8115

Permit Tech Review:

Engineering Review:

Geology Review:

LONGITUDE: -109.73418 NORTHINGS: 4455782.00

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

✓ PLAT

Bond: FEDERAL - WYB000040

Potash

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: 49-1645

RDCC Review:

Fee Surface Agreement

✓ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

R649-2-3.

Unit: AURORA (DEEP)

R649-3-2. General

R649-3-3. Exception

Drilling Unit

Board Cause No: R649-3-2

Effective Date:

Siting:

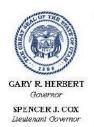
R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet4 - Federal Approval - dmason5 - Statement of Basis - bhill 23 - Spacing - dmason

RECEIVED: June 26, 2014



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: AURORA FEDERAL 3-1-7-19

API Well Number: 43047543040000

Lease Number: UTU76488
Surface Owner: FEE (PRIVATE)
Approval Date: 6/26/2014

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

Administrative approval for commingling the production from the Wasatch formation and the Green River formation in this well is hereby granted. Appropriate information has been submitted to DOGM in accordance with R649-3-22. No written objections from owners were received by DOGM.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon

as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

RECEIVED Form 3160-3 (August 2007) ECEL 1 201 UNITED STATES

PARTMENT OF THE INTERIOR MAR 2 4 2014 CEUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

5. Lease Serial No.

20 CKS CT	DIM	Varnal III	UTU76488		
APPLICATION FOR PERMIT	TO DILLONRE	evier II al U	6. If Indian, Allottee or Tribe Name	•	
la. Type of Work: DRILL REENTER	CONFID	ENTIAL	7. If Unit or CA Agreement, Name	and No.	
1b. Type of Well:	ner 🔲 Sing	le Zone 🛛 Multiple Zone	Lease Name and Well No. AURORA FEDERAL 3-1-7-19	· · · · · · · · · · · · · · · · · · ·	
2. Name of Operator Contact: BILL BARRETT CORPORATION E-Mail: briley@	BRADY RILEY billbarrettcorp.com		9. API Well No. 43047 54304		
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	le area code) 5	10. Field and Pool, or Exploratory MOFFAT CANAL BRENNAN BOTTOM			
4. Location of Well (Report location clearly and in accorda	nce with any State requi	rements.*)	11. Sec., T., R., M., or Blk. and Sur	vey or Area	
At surface Lot 3 665FNL 1900FWL			Sec 1 T7S R19E Mer SLB		
At proposed prod. zone Lot 3 665FNL 1900FWL					
 Distance in miles and direction from nearest town or post 26.2 TO VERNAL UTAH 	office*		12. County or Parish UINTAH	13. State UT	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Le	ease	17. Spacing Unit dedicated to this v	vell	
665 FEET LEASE LINE	1493.94		80.00		
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth		20. BLM/BIA Bond No. on file		
723 FEET PROPOSED; 2559 FEET DRILLED	9169 MD 9169 TVD		WYB000040		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4910 GL 22. Approximate date work will start 09/01/2014		work will start	23. Estimated duration 60 D&C		
24. Attachments					
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:					
. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).					
 A Surface Use Plan (if the location is on National Forest Systems) 	em Lands, the	Operator certification	ormation and/or plans as may be require	rad by tha	
SUPO shall be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be required by the authorized officer.					

(Electronic Submission)

Name (Printed/Typed) BRADY RILEY Ph: 303-312-8115

Date 03/24/2014

PERMIT ANALYST Approved by (Signature)

Name (Printed/Typed)

Jerry Kenczka

JUL 0 2 2014

Title

25. Signature

ent Field Manager

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #239706 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
NOTICE OF APPROVAL

NOTICE OF APPROVAL



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

BILL BARRETT CORPORTATION

AURORA FEDERAL 3-1-7-19

43-047-54304

Location:

Lease No: Agreement: LOT 3, Sec. 1, T7S, R19E

UTU-76488

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist) - Forty-Eight (48) hours prior to construction of location and access roads.

Location Completion (Notify Environmental Scientist) Prior to moving on the drilling rig.

Spud Notice (Notify Petroleum Engineer) Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing (Notify Supv. Petroleum Tech.) Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn opreport@blm.gov

BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify Petroleum Engineer) - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.

CONDITIONS OF APPROVAL:

- In the case of any deviation from the submitted APD(s), which includes BBC's surface use plan and any applicable ROW applications, the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will
 ensure its compliance.

Construction

- The private landowner (Robert Conrad) will be notified by BBC prior to commencement of construction of the well pad and related infrastructure.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Roads shall be crown and ditched to divert any runoff from pooling on the road surface itself, this
 also aids in lessening erosion on the road and disturbed area. Wing ditches can be installed to also
 aid in controlling runoff from affecting the proposed road. These should be spaced to adequately
 catch any runoff along the ditches and aid in diverted water to the surrounding vegetation.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources, prevent unnecessary surface disturbance, and conform to currently available technologies and practices.
- If cattleguards or gates are required along the access roads construction will be to BLM/USFS Gold Book standards or better.

- If culverts are required along the proposed access road(s), they will be a minimum of 18 inches in diameter and installed to meet BLM/USFS Gold Book standards.
- A minimum 16 mil liner is required for the reserve pits.
- No construction or soil disturbing activities will occur during times of saturated soils (usually spring runoff and fall rains).rated soils (usually spring runoff and fall rains).

Reclamation and Vegetation

- Noxious and invasive weeds will be treated, monitored, and controlled along both the access road and pipeline routes, and on the well pad.
- Minimal vegetation removal will occur around the well pad to lessen the visual impact and to aid in re-vegetation efforts in the future.
- Operator will ensure topsoil stability on location and use topsoil for interim reclamation as soon as
 possible to maintain viability of topsoil resource. Topsoil piles will be "track-walked," crusted and
 seeded to prevent topsoil erosion.
- Aurora Federal 5-1D-7-19 location: Topsoil piles will be moved from the north side of the pad near corners 1, 2 and 9 to the area between corners C and 6 in order to avoid potential topsoil erosion.
- Aurora Federal 7-1D-7-19 location: Topsoil piles will be moved from the area near Corner 1 to Corner 4 behind the spoils pile in order to avoid potential topsoil erosion.
- Whenever feasible, tanks and other equipment needed for production activities should be located toward the entrance (front) of the well pad in order to maximize interim reclamation.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact the landowner or the BLM for possible seed mixes to use in the project area. Seeds should be planted in August and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

Visual Resources

 All permanent (on site for 6 months or longer) structures constructed or installed (including pumping units) will be painted Covert Green in order to blend with the surrounding vegetation. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) are excluded.

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- To effectively protect useable water, cement for the long string is required to be brought 200 feet above the surface casing shoe.
- A bowl diverter system, which is connected and discharges to a panic or choke blooie line, shall be
 installed while drilling of the surface hole section

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
 drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
 No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
 test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's
 log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

Page 5 of 7 Well: AURORA FEDERAL 3-1-7-19 5/15/2014

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Sundry Number: 54121 API Well Number: 43047543040000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	-	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488	
SUNDF	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19	
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENW Section:	HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Merid	ian: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
ATTACHED PLEASE CHANGING THE SU AT 1200 FEET, ALOI THE PRODUCTION	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show a EFIND THE REVISED DRILLING PREVISED DRILLING PREVISED DRILLING OF CASING SET DEPTH AND WITH THE PRODUCTION CON TAIL TOP OF CEMENT. THE STED THE AMOUNT OF CEMEN	PLAN FOR THIS WELL, AND SIZE TO 8-5/8 INCH CASING TYPE (180) AND ESE CHANGES ALSO	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: DEPths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining August 14, 2014 Date: By:	
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBE 303 312-8115	Fermit Analyst		
SIGNATURE N/A		DATE 8/5/2014		

BILL BARRETT CORPORATION <u>DRILLING PLAN</u>

Aurora Federal 3-1-7-19

NENW, 665' FNL and 1900' FWL, Section 1, T7S-R19E, SLB & M (surface hole) NENW, 665' FNL and 1900' FWL, Section 1, T7S-R19E, SLB & M (bottom hole) Uintah County, Utah

1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

Formation	<u>Depth – MD/TVD</u>
Green River	4,755'
Mahogany	5,824'
Lower Green River*	6,964'
Douglas Creek	7,073
Black Shale	7,685'
Castle Peak	7,788'
Uteland Butte	8,110'
Wasatch*	8,669'
TD	9,169'

*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 1691'

3. **BOP and Pressure Containment Data**

Depth Intervals	BOP Equipment			
0 – 1200'	No pressure control required (may pre-set 8-5/8" with smaller rig)*			
1200' – TD				
	11" 5000# Annular BOP			
- Drilling spool to accommodate choke and kill lines;				
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in				
accordance with the requirements of onshore Order No. 2;				
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in				
advance of all BOP pressure tests.				
- BOP hand wheels	may be underneath the sub-structure of the rig if the drilling rig used is set up			
To operate most efficiently in this manner.				

^{*}See Appendix A

4. <u>Casing Program</u>

Hole Size	SETTING		Casing	<u>Casing</u>	<u>Casing</u>	Thusad	Canditian
262	(FROM)	(TO)	Size	Weight	<u>Grade</u>	<u>Thread</u>	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1200'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	TD	5 ½"	17#	P-110/I-80	LT&C	New

Bill Barrett Corporation Drilling Program Aurora Federal 3-1-7-19 Uintah County, Utah

5. <u>Cementing Program</u>

16" Conductor Casing	Grout
8 5/8" Surface Casing	Lead: 170 sx Halliburton Light Premium with additives
	mixed at 11.0 ppg (yield = $3.16 \text{ ft}^3/\text{sx}$) circulated to surface
	with 75% excess. TOC @ Surface
	Tail: 270 sx Halliburton Premium Plus cement with
	additives mixed at 14.8 ppg (yield = $1.36 \text{ ft}^3/\text{sx}$), calculated
	hole volume with 75% excess. TOC @ 700'
5 ½" Production Casing	Lead: 650 sx Tuned Light cement with additives mixed at
	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). TOC @ 700'
	Tail: 510 sx Halliburton Econocem cement with additives
	mixed at 13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). Top of cement to
	be determined by log and sample evaluation; estimated TOC
	@ 6464'

6. <u>Mud Program</u>

Interval	Weight	<u>Viscosity</u>	Fluid Loss (API filtrate)	<u>Remarks</u>
0' - 1200'	8.3 - 8.7	26 - 36	NC	Air/Mist/Freshwater Spud Mud
				Fluid System
1200' – 5500'	9.2 - 9.4	26 - 36	NC	Freshwater Spud Mud Fluid
				System
5500' – TD	9.4 - 9.5	42 - 56	25 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

8. <u>Anticipated Abnormal Pressures or Temperatures</u>

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4529 psi* and maximum anticipated surface pressure equals approximately 2512 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

^{*}Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

^{**}Maximum surface pressure = A - (0.22 x TD)

Bill Barrett Corporation Drilling Program Aurora Federal 3-1-7-19 Uintah County, Utah

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be from:

43-2505, (t37379): McKinnon Ranch Properties, LC

43-12345 (F78949): Dale Anderson

43-10664 (A38472): W. E. Gene Brown

49-1645 (A35800): RN Industries, Inc.

49-2336 (t78808): RN Industries, Inc.

43-8496 (A53617): A-1 Tank Rental

43-10288 (A65273): Nile Chapman (RNI)

49-2247 (F76893): Magnum Water Service

43-8875 (t38762): Four Star Ranch (c/o David Yeman)

11. Drilling Schedule

Location Construction: DEC 2014 Spud: DEC 2014

Duration: 15 days drilling time

6 days completion time

12. Appendix A

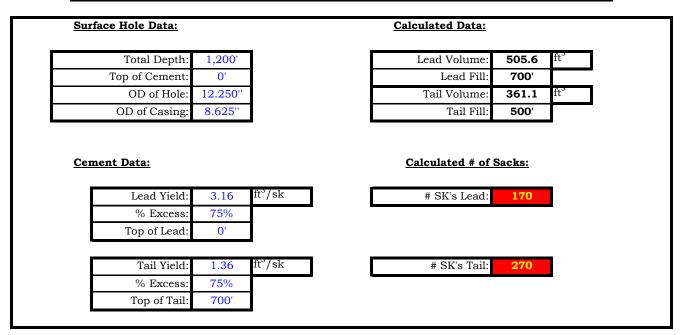
8-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line on the rig
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits



AURORA CEMENT VOLUMES

Well Name: <u>Aurora Federal 3-1-7-19</u>



Production Hole Data	<u>:</u>		Calculated Data:		
W + 1 D + 1	0.160	7	7 1771	1407.0	ft³
Total Depth:	9,169'		Lead Volume:	1497.9	Iι
Top of Cement:	700'		Lead Fill:	5,764'	
Top of Tail:	6,464'		Tail Volume:	703.0	ft³
OD of Hole:	7.875"		Tail Fill:	2,705'	
OD of Casing:	5.500"	1			
Cement Data:			Calculated # of	Sacks:	
Cement Data:		1607.1			•
Cement Data: Lead Yield:	2.31	ft³/sk	Calculated # of # SK's Lead:	<u>Sacks:</u> 650	I
	2.31 1.42	ft³/sk ft³/sk			

Aurora Federal 3-1-7-19 Proposed Cementing Program

<u>Job Recommendation</u>	Su	rface Casing	
Lead Cement - (700' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	700'	
	Volume:	90.04	bbl
	Proposed Sacks:	170	sks
Tail Cement - (TD - 700')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft ³ /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	700'	
	Calculated Fill:	500'	
	Volume:	64.32	bbl
	Proposed Sacks:	270	sks

Job Recommendation		Produc	tion Casing
Lead Cement - (6464' - 700')			
Tuned Light TM System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft ³ /sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	700'	
	Calculated Fill:	5,764'	
	Volume:	266.78	bbl
	Proposed Sacks:	650	sks
Tail Cement - (9169' - 6464')			
Econocem TM System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	6,464'	
	Calculated Fill:	2,705'	
	Volume:	125.21	bbl
	Proposed Sacks:	510	sks

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

	STATE OF UTAH		FORM 9					
I	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488							
SUNDRY NOTICES AND REPORTS ON WELLS 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:								
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)					
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19					
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000					
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL			COUNTY: UINTAH					
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Merio	dian: S	STATE: UTAH					
11. CHECI	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION						
	ACIDIZE	ALTER CASING	CASING REPAIR					
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME					
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE					
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION					
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK					
,	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION					
SPUD REPORT Date of Spud:								
10/2/2014	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON					
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL ☐					
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION					
	WILDCAT WELL DETERMINATION	OTHER	OTHER:					
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 10/2/14 by Triple A Drilling at 8:00 am, Rig Number TA4037, Rig Type Soilmec SR/30. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 03, 2014								
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMB 303 312-8172	ER TITLE Senior Permit Analyst						
SIGNATURE		DATE						
N/A		10/3/2014						

	STATE OF UTAH		FORM 9				
1	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488				
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.	deepen existing wells below ntal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)				
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19				
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000				
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section: (HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Meri	dian: S	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
 	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of option.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
9/30/2014	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
9/30/2014 WILDCAT WELL DETERMINATION OTHER							
NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMB 303 312-8597	ER TITLE Administrative Assistant					
SIGNATURE N/A	222.2.2.000.	DATE 10/2/2014					

	FORM 9		
1	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488
SUNDR	Y NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)
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QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section: (HP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Meridia	n: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
_	ACIDIZE	ALTER CASING	CASING REPAIR
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	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
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SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
11/30/2014	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIBE BRODOSED OR	COMPLETED OPERATIONS. Clearly show all		donthe volumes atc
	e November 2014 Drilling Acti		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 03, 2014
NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant	
SIGNATURE N/A		DATE 12/3/2014	



API			State/Provin	/2014 18:00 - 1 ^o	Field Nam	ne Well Status Total Depth (ftKB) Primary Job Type	
43-047-5 Time Lo			Utah	Uintah	Aurora		etion
Start Time	Dur (hr)	End Tim	e Code	Category		Com	
8:00	12.00	06:00	1	RIGUP & TEARDOWN		Move camps to new loc. Prepare to move rig 1.5 miles from AF 1-1D-7-19.	
Auroi	ra 03-1-7	'-19	11/16	/2014 06:00 - 1 ⁻	1/17/201	4 06:00	
PI -3-047-5	54304		State/Provin Utah	ce County Uintah	Field Nam Aurora		etion
ime Lo					[
tart Time 6:00	Dur (hr)	End Tim 15:00	e Code	Category RIGUP & TEARDOWN		Com Miru. Rig on daywork @ 15:00	
5:00		17:00	14	NIPPLE UP B.O.P	l	Nipple up diverter, flowline. Rack & strap BHA.	
7:00		19:00	20	DIRECTIONAL WORK		PU mm, dir tools. Scribe mm.	-
9:00	10.00	05:00	2	DRILL ACTUAL		Steerable drlg 80' - 1220'. Wob 25k, rpm 40/95, 550 gpm, spp 1550 psi, dp 500	psi, rop
						114 fph. Spud well @ 19:00.	
5:00		06:00	5	COND MUD & CIRC		Sweep hole, C&C mud f/ST. Rig Service.	
Auro i	ra 03-1-7	'-19	11/17	/2014 06:00 - 1 [,]	1/18/201	4 06:00	
PI ∙3-047-5			State/Provin Utah	ce County Uintah	Field Nam Aurora	, , , , , , , , , , , , , , , , , ,	etion
ime Lo		l Fad Tim	- 1 - 0 - 1 -	Cotonomi			
6:00	Dur (hr) 2.50	End Tim 08:30	e Code	TRIPS		ST to 8" DCs. Hole in good shape.	
8:30	1.50	10:00	5	COND MUD & CIRC		Sweep hole, C&C f/casing.	
0:00	2.00	12:00	6	TRIPS		Toh f/casing.	
2:00	1.00	13:00	20	DIRECTIONAL WORK		LD dir tools, mm.	
3:00	3.00	16:00	12	RUN CASING & CEME	NT	Run 8 5/8", 24#, J-55, STC csg as follows: Guide shoe, 1 jt csg, Flt collar, 27 jts Land on bottom @ 1220'.	s csg.
6:00	1.00	17:00	5	COND MUD & CIRC		C&C f/cement.	
7:00	2.00	19:00	12	RUN CASING & CEME		Hsm. RU HES, cement well as follows: Pressure test to 2500 psi, pump 20 bbl f spacer, 40 bbl superflush @ 10 ppg, 20 bbl h2o spacer, 90 bbls lead (185 sx) Econocem @ 11 ppg, 2.74 yld, 16.75 gps h2o. Tail in with 67 bbls (275 sx) Expandacem cmt @ 14.8 ppg, 1.37 yld, 6.62 gps h2o. Displaced w/76 bbls h2o. press 360 psi, bump plug to 1032 psi. Full returns, 13 bbls cmt to surface. BLM and UDOGM notified 11-15-14 @ 18:00 of csg run.	
9:00	1.00	20:00	12	RUN CASING & CEME	NT	Ran 200' 1" pipe down annulus, pump 70 sx (14 bbls) Halcem @ 15.8 ppg, 1.19 5.22 gps h2o. Hole stood full, RD HES.	yld,
0:00	3.00	23:00	13	WAIT ON CEMENT		W.O.C.	
3:00	2.00	01:00	21	OPEN		Cut off 9 5/8" csg, weld on 11" 5M X 8 5/8" SOW casinghead.	
1:00		04:00	14	NIPPLE UP B.O.P		NUBOP.	
4:00	2.00	06:00	15	TEST B.O.P		HSM. Test BOP with B&C Quick Test. Test pipe rams, blind rams, fosv, inside be choke line & valves, choke manifold, kill line, inside & outside valve, hcr, manua @ 5000 psi high f/10 min, annular @ 1500 psi f/10 min high, csg @ 1500 psi f/3 Notified BLM and UDOGM 11-15-14 @ 18:00 of BOP test.	al valve
	ra 03-1-7	'-19		/2014 06:00 - 1 ⁻			
.PI 3-047-5			State/Provin Utah	ce County Uintah	Field Nam Aurora		etion
ime Lo						.,,	
Start Time 6:00	Dur (hr)	End Tim		Category		Com	
		08:30	15	TEST B.O.P		Finish testing BOP.	
8:30 9:00		12:00	21 6	TRIPS		Install wear bushing. PU dir tools, scribe. Tih. Tag cement @ 1170'.	
2:00		12:00	21	OPEN		Drill cmt & flt equip, 20' new hole to 1240'.	
2:30		13:00	21	OPEN		F.I.T. to 130 psi f/ 10.5 EMW.	
3:00		19:30	2	DRILL ACTUAL		Steerable drlg 1240' - 2259'. Wob 22k, rpm 50/77, Spp 1650 psi, dp 250 psi, rop fph. Bop drill daylights.	p 157
19:30	0.50	20:00	7	LUBRICATE RIG		Rig Service. X/O cushion sub. Bop drill morning tour.	
20:00		06:00	2	DRILL ACTUAL		Steerable drlg 2259' - 3593'. Wob 22k, rpm 50/83, 487 gpm, Spp 1850 psi, dp 2	250 psi,



.PI 13-047-{	54304		State/Province Utah	ce County Uintah	Field Name	•	Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion
ime Lo			Otan	Ollitan	Autora		COMPLETION	8,009.0 Drilling & Completion
Start Time		End Tim		Category				Com
06:00	10.00		2	DRILL ACTUAL		Steerable rop 56 fph		bb 22k, rpm 50/83, 487 gpm, Spp 1650 psi, dp 250 psi,
6:00		16:30	7	LUBRICATE RIG		Rig service		
16:30	13.00	05:30	2	DRILL ACTUAL		rop 53 fph		bb 32k, rpm 40/74, 435 gpm, Spp 1650 psi, dp 250 psi, k fine f/4500'.
5:30	0.50	06:00	7	LUBRICATE RIG		Rig service	e.	
Auro	ra 03-1-7	7-19	11/20/	2014 06:00 - 1	1/21/201	4 06:00		
API 43-047-	=4204		State/Province Utah	ce County Uintah	Field Name	9	Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion
Time Lo			Otan	Ointair	Autora		COMPLETION	8,009.0 Drilling & Completion
Start Time	Dur (hr)	End Tim		Category				Com
06:00	10.00	16:00	2	DRILL ACTUAL		psi, rop 52	? fph.	ob 32k, rpm 40/74, 435 gpm, Spp 1800 psi, dp 100 - 200 k fine every 90' f/4500'.
16:00		16:30	7	LUBRICATE RIG		Rig service		
16:30	13.00	05:30	2	DRILL ACTUAL		psi, rop 40) fph.	ob 32k, rpm 40/74, 435 gpm, Spp 1800 psi, dp 100 - 200 k fine every 90' f/4500'.
05:30	0.50	06:00	7	LUBRICATE RIG		Rig service	e.	
Auro	ra 03-1-7	7-19	11/21/	2014 06:00 - 1	1/22/201	4 06:00		
API	- 4004		State/Province	1 1	Field Name	9	Well Status	Total Depth (ftKB) Primary Job Type
43-047-{ Time Lo			Utah	Uintah	Aurora		COMPLETION	8,669.0 Drilling & Completion
Start Time	Dur (hr)	End Tim	e Code	Category				Com
06:00	10.00	16:00	2	DRILL ACTUAL		psi, rop 38	ß fph.	b 32k, rpm 40/74, 435 gpm, Spp 1800 psi, dp 100 - 200 k fine every 90' f/4500'.
16:00		18:00	5	COND MUD & CIRC			le, C&C f/toh, pump pi	
18:00		02:30	6	TRIPS		Toh. LD dir tools, MM(motor shelled) XO gap sub.		
02:30	<u> </u>	06:00	6	TRIPS		PU new M	M, bit, tih.	
Auro	ra 03-1-7	7-19	11/22/	2014 06:00 - 1	1/23/201	4 06:00		
API 43-047-	54304		State/Province Utah	County Uintah	Field Name	9	Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion
Time Lo			Otan	Ointair	Marora		COM LETION	0,000.0 Drining & Completion
Start Time		End Tim		Category		E		Com
06:00 10:00		10:00	2	TRIPS DRILL ACTUAL		Finish tih. Steerable drlg 6264' - 6516'. Wob 20k, rpm 40/77, 450 gpm, Spp 1800 psi, dp 100 - 20 psi, rop 42 fph. Sweep hole w/15 ppb Strata flex fine every 90' to 6500'.		
16:00	0.50	16:30	7	LUBRICATE RIG		Rig service	е.	
16:30		05:30	2	DRILL ACTUAL		Steerable psi, rop 53		bb 20k, rpm 40/71, 420 gpm, Spp 1950 psi, dp 100 - 200
05:30	0.50	06:00	7	LUBRICATE RIG		Rig service	е.	
Auro	ra 03-1-7	7-19	11/23/	2014 06:00 - 1	1/24/201	4 06:00		
API 43-047-			State/Province Utah	County Uintah	Field Name Aurora		Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion
Time Lo Start Time	Dur (hr)	End Tim	e Code	Category				Com
06:00	11.00	17:00	2	DRILL ACTUAL		psi, rop 70) fph.	ob 23k, rpm 40/71, 420 gpm, Spp 2150 psi, dp 150 - 200
17:00	1	17:30	21	OPEN			odriller malfunction.	
17:30		18:00	7	LUBRICATE RIG		Rig service		
18:00		05:30	2	DRILL ACTUAL		psi, rop 30) fph.	bb 23k, rpm 40/71, 420 gpm, Spp 2150 psi, dp 150 - 200
05:30	I 0.50	06:00	7	LUBRICATE RIG		Rig service	e	



٩PI	14 05-1- <i>1</i>		State/Province	2014 06:00 -	Field Nam		Total Depth (ftKB) Primary Job Type	
13-047-{	54304		State/Provinc Utah	Uintah	Aurora	COMPLETION	8,669.0 Drilling & Completion	
ime Lo	g							
Start Time	Dur (hr)	End Time		Cate	gory	Ctoorphia drig 02201 02061 Wah 2	Com	
06:00			2.5	DRILL ACTUAL		psi, rop 30 fph.	3k, rpm 40/71, 420 gpm, Spp 2150 psi, dp 150	
8:00		09:00	5	COND MUD & CIF	RC	C&C f/bit trip. Pump slug.		
9:00		15:30	6	TRIPS		Toh f/bit. Tight hole @ 4600'.		
5:30		16:30	20	DIRECTIONAL W	ORK	LD dir tools, XO bit.		
6:30		00:00	6	TRIPS		Tih. Wash & ream @ 3100', 3600',		
0:00		05:00	2	DRILL ACTUAL		psi, rop 55 fph. TD well @ 8669'.	3k, rpm 40/71, 420 gpm, Spp 2150 psi, dp 150	
5:00	1.00	06:00	5	COND MUD & CIF	RC	Sweep hole, C&C f/ST.		
۱uro	ra 03-1-7	'-19	11/25/	2014 06:00 -	11/26/201	4 06:00		
ा 3-047-	1204		State/Provinc	1 1	Field Nam	e Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion	
ime Lo			Ulan	Uintah	Aurora	COMPLETION	8,669.0 Drilling & Completion	
tart Time	Dur (hr)	End Time	Code	Cate	iora		Com	
6:00	0.50	06:30	6	TRIPS		ST 10 jts.		
6:30	1.50	08:00	5	COND MUD & CIF	RC	Sweep hole, C&C f/csg. Pump 120 ppb Strata Vanguard.	bbl Strata sweep w/15 ppb Strata flex medium, 1	
8:00	6.50	14:30	6	TRIPS		Toh f/csg.		
4:30		15:00	21	OPEN		Pull wear bushing.		
5:00	8.00	23:00	12	RUN CASING & CEMENT		RU and run 5 1/2", 17#, I-80, LTC csg as follows: flt shoe, 2 jts csg, flt collar, 22 jts csg MJ @ 7580', 16 jts csg, MJ @ 6856', 157 jts csg (197 jts total). Fill pipe,establish circ every 1000'.		
3:00	2.00	01:00	5	COND MUD & CIRC		PU jt# 198, C&C mud, reciprocate pipe. Pump 40 bbl Strat sweep w/15 ppb Strata flex fine, 15 ppb Strata Vanguard. LD jt # 198, PU LJ & mandrel, land csg, RU cmt head.		
01:00	5.00	06:00	12	RUN CASING & CEMENT		10 ppg, 6 bbls H2O spacer, 30 bbl s pump 490 sx (204 bbls) Tuned Ligh 730 sx (188 bbls) Expandacem @ 1 drop plug, displace with 199 bbls Cl bump plug to 2300 psi. Bled back 1	Test lines to 5000 psi. Pump 30 bbl Tuned spacesuper flush @ 10 ppg, 6 bbl H2O spacer. Mix and t lead @ 11 ppg, 2.34 yld, 10.1 gps h2o. Tail in v 3.5 ppg, 1.45 yld, 6.91 gps h2o. Wash up to pit, a-webl/Aldicide @ 8.34 ppg. Max pressure 1700 .75 bbls, floats held. Full returns, slowed rate to 2 to back to surface. R/D HES. BLM & UDOGM noti	
Auro	ra 03-1-7	'-19	11/26/	2014 06:00 -	11/26/201	4 12:00		
PI 3-047-5	54204		State/Provinc	e County Uintah	Field Nam		Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion	
ime Lo			Utah	Ointair	Aurora	COMPLETION	8,009.0 Diffilling & Completion	
	Dur (hr)	End Time	Code	Cate	gory		Com	
3:00	2.00	08:00	21	OPEN		SET PACK OFF WITH CAMREON	TEST WELL HEAD	
8:00	2.00	10:00	14	NIPPLE DOWN B	O.P	NIPPLE DOWN B.O.Ps		
0:00	2.00	12:00	21	OPEN		CLEAN PIT RELEASE RIG @ 12:00 MOVE RIG TO (FD 6-36-6-19)		
۱uro	ra 03-1-7	'-19	11/28/	2014 06:00 -	11/29/201	4 06:00		
PI 3-047-{			State/Province Utah	e County Uintah	Field Nam Aurora	e Well Status COMPLETION	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completion	
	q	End Time	e Code	Cotor	ann'		Com	
ime Lo	Dur (hr)		Coue	Category General Operations		LION OUEOK PRECOURE NR 44	NIGHT CAP. CLEAN HANGER MANDREL. NU	

BLM - Vernal Field Office - Notification Form

_Submitted By <u>Pat Clark</u> Phone N Well Name/Number <u>Aurora Federa</u> Qtr/Qtr <u>NW/NE</u> Section <u>1</u> Townsh Lease Serial Number API Number 43-047-54304	al 3-1-7-19
Spud Notice – Spud is the initial sout below a casing string.	pudding of the well, not drilling
Date/Time	AM PM 🖂
Casing - Please report time casing times. Surface Casing Intermediate Casing Production Casing Liner Other	g run starts, not cementing
Date/Time <u>11/16/2014</u>	<u>20:00</u> AM ☐ PM ⊠
BOPE ☐ Initial BOPE test at surface of BOPE test at intermediate ca ☐ 30 day BOPE test ☐ Other	
Date/Time <u>11/17/2014</u>	<u>15:00</u> AM ☐ PM ☒
Remarks Running 1200' of 8 5/8'	' <u>, 24#, J-55, STC csg.</u>

	STATE OF UTAH			FORM 9
[DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488
SUNDR	Y NOTICES AND REPORTS	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.	y deep zontal la	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43047543040000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 12-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL				COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section: (HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Me	eridian:	S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NA	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	□ с	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ F	RACTURE TREAT	☐ NEW CONSTRUCTION
12/24/2014	OPERATOR CHANGE	Пр	LUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT				APD EXTENSION
Report Date:	WATER SHUTOFF		I TA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	o	THER	OTHER:
THIS WELI	COMPLETED OPERATIONS. Clearly show	NON	12/24/2014.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 30, 2014
NAME (PLEASE PRINT) Brady Riley	PHONE NUN 303 312-8115	IBER	TITLE Permit Analyst	
SIGNATURE	000 012 0110		DATE	
N/A			12/29/2014	

	STATE OF UTAH		FORM 9
I	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Meri	dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
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NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
			RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL
Report Date: 12/31/2014	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
12/01/2014	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	COMPLETED OPERATIONS. Clearly show as December 2014 Drilling Ac		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 05, 2015
NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMB 303 312-8597	ER TITLE Administrative Assistant	
SIGNATURE	333 3.2 3007	DATE	
N/A		1/5/2015	



ા 3-047-	54304		State/Provinc Utah	e County Uintah	Field Name	e Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completio		
Time Lo			Otan	Ointail	rarora	TROBOGINO	c,ssc.s Eming a complete		
Start Time	Dur (hr)	End Time	Code	Category			Com		
06:00	9.00	15:00	LOGG	Logging		8567' (HAVE 55' FILL). LOG S TOC 1200'	SR/JB TO TAG FILL AT 8512', DRLG SHOWS FC A HOWS CMT TD-3250' GOOD, 3250'-1250' FAIR, I AND 7559'-7582'. LOGGED WITH OUT PRESSURI		
15:00	15.00	06:00	LOCL	Lock Wellhead & Secu	ire	LOCK & SECURE WELL. RDMO HES			
Auro	ra 03-1-7	'-19	12/16/	2014 06:00 - 1	2/17/201	4 06:00			
API			State/Provinc	1 ,	Field Name		Total Depth (ftKB) Primary Job Type		
43-047-		U	Utah	Uintah	Aurora	PRODUCING	8,669.0 Drilling & Completio		
Time Lo		End Floor	0.4	0-1			Com		
Start Time 06:00	Dur (hr) 24.00	End Time 06:00	GOP	General Operations		NU 5" 10K FRAC VALVES. PR) 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDR ES TEST CSG TO 6200 PSI WITH METHANOL, T ALL TEST GOOD. SECURE WELL. FILLING FRAC		
Auro	ra 03-1-7			2014 06:00 - 1					
API 43-047-	1204	17	State/Provinc	1	Field Nam		Total Depth (ftKB) Primary Job Type		
Time Lo			Utah	Uintah	Aurora	PRODUCING	8,669.0 Drilling & Completio		
Start Time	Dur (hr)	End Time	Code	Category			Com		
06:00		06:00	GOP	General Operations		HEAT FRAC LINE	00.11		
Auro	ra 03-1-7	'-19	12/22/	2014 06:00 - 1	2/23/201	4 06:00			
API 43-047-			State/Provinc Utah	County Uintah	Field Name Aurora	e Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completio		
Time Lo Start Time		Fad Time	Code	Catanani			Com		
06:00	Dur (hr) 1 00	End Time 07:00	CTRL	Crew Travel		CREW TRAVEL. HSM.	Com		
07:00		09:00	SRIG			MIRU CUTTERS W/ 5" 10K LUBE.			
09:00		10:00	PFRT	Rig Up/Down Perforating		PU PERF GUNS FOR STG 1. 6846'-6859' AND 7559'-7582'. 8001'-8430' WITH 60 HOLES I SHUT IN AND SECURE WELL "GUN #19 SHOWED SHORT I	OPEN WITH 60 PSI. RIH AND CORRELATE TO S. RUN DOWN AND PERF UTELAND BUTTE FORM N 20' NET. POOH AND VERIFY ALL GUNS SHOT. WE TRIED SHOOTING AGAIN SHOWED SHORT. IFERED W/DENVER ABOUT GUN #20 BEING 6' O		
10:00	4.00	14:00	SRIG	Rig Up/Down		MIRU HES FRAC FLEET.			
14:00		l		Lock Wellhead & Secu	ire	LOCK & SECURE WELL			
	ra 03-1-7			2014 06:00 - 12					
API 43-047-		18	State/Provinc		Field Name		Total Depth (ftKB) Primary Job Type 8,669.0 Drilling & Completio		
Time Lo			Ulaii	Jointail	Autora	FRODUCING	o,009.0 Dilliling & Completio		
	Dur (hr)	End Time	Code	Category			Com		
Start Time		06:30	SMTG	Safety Meeting		AOL 04:20 DDIME LID CHEMS	S AND PUMPS. QC FLUIDS. PRESSURE TEST. H		



Time Lo	g				
Start Time	Dur (hr)	End Time		Category	Com
06:30	2.17	08:40	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7500 PSI. OPEN WELL W/ 75 PSI AT 6:25 AM BREAK DOWN 2741 PSI AT 10.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 120 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1700 PSI. FLUSH W/ 8013 GAL. 31.4 BPM AT 2360 PSI. BALL OUT (MAX PRESSURE 2800 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN.
					STAGE FR PAD. STABLE RATE OF 71.3 BPM AT 3151 PSI. ISDP 1299 . FG .59. PERFS OPEN 35/60
					"TREATER DIDN'T HAVE SET PT ENTERED IN FOR 100 MESH TOOK 7300 GALS TO GET SAND MOVING AFTER WE STG TO 100MESH. WHEN WE STG TO 30/50 STG DOOR STUCK OPEN ON MM OVER LOADING BELT HAD TO CUT SCREWS FLUSH WELL. FIX HYDRALICS ON MM. SHOVEL SAND OFF OF AND OUT AROUND FROM BELT TO GET BELT MOVING AGAIN. DOWN FOR 25 MINS.
					ISIP 1382, FG .60, MR 72.6 BPM, AR 70.8 BPM, MP 3183 PSI (ON FINAL FLUSH 3450 PSI), AP 2588 PSI 100 MESH 7,800 LBS 0.75PPG 30/50 WHITE 150,300 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 3877 BBLS, 20# GEL 773 BBLS, 20# HYBOR 860 BBL.BTR 5797 BBLS.
					STAGE SCORE 10
					SHUT IN AND TURN OVER TO CUTTERS
08:40	4.34	13:00	PFRT	Perforating	PERF STG #2- PU HES 5-1/2" 10K CFP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE (WITH METHANOL) 1250 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6846'-6859 & 7559'-7582'. RUN DOWN AND SET 5-1/2" CFP AT 7985' WITH 1050 PSI. PULL UP AND PERF BSF/CSTL PK FORM 7681'-7952' WITH 45 HOLES IN 15' NET. END PERFS WITH 960 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN. "PLUG DID NOT TRY TO SET ON 1ST RUN SHOWED OPEN IN WIRELINE TRUCK. POOH W/PLUG & GUNS @ 150'/MIN. LAYED GUNS DOWN FOUND A BARE WIRE TOUCHING ANOTHER WIRE WHICH BY PASSED THE DIOD CAUSING IT TO GO OPEN. RE WIRE, REHEAD. RIH W/PLUG & GUNS SET PLUG & PERF TO DESIGN"
13:00	2.00	15:00	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 7500 PSI.
					OPEN WELL W/ 980 PSI AT 13:20 BREAK DOWN 3139 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 2045 PSI. FLUSH W/ 7633 GAL. 32.5 BPM AT 2700 PSI. BALL OUT (MAX PRESSURE 5924 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN. ISIP 2303 , FG .73, MR 72.5 BPM, AR 72.2 BPM, MP 3548 PSI (ON FINAL FLUSH 3995 PSI), AP 3315 PSI 100 MESH 8,100 LBS 0.75PPG 30/50 WHITE 152,200 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 3190 BBLS, 20# GEL 661 BBLS, 20# HYBOR 854 BBL.BTR 5014 BBLS. STAGE SCORE 10
					SHUT IN AND TURN OVER TO CUTTERS
15:00	1.25	16:15	PFRT	Perforating	PERF STG #3- PU HES 5-1/2" 10K CFP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE (WITH METHANOL) 1900 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7559'-7582'. RUN DOWN AND SET 5-1/2" CBP AT 7675' WITH 1800 PSI. PULL UP AND PERF DOUGLAS CREEK/3PT MKR FORM 7328'-7650' WITH 45 HOLES IN 15' NET. END PERFS WITH 1600 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN.
					TURN WELL OVER TO HES.



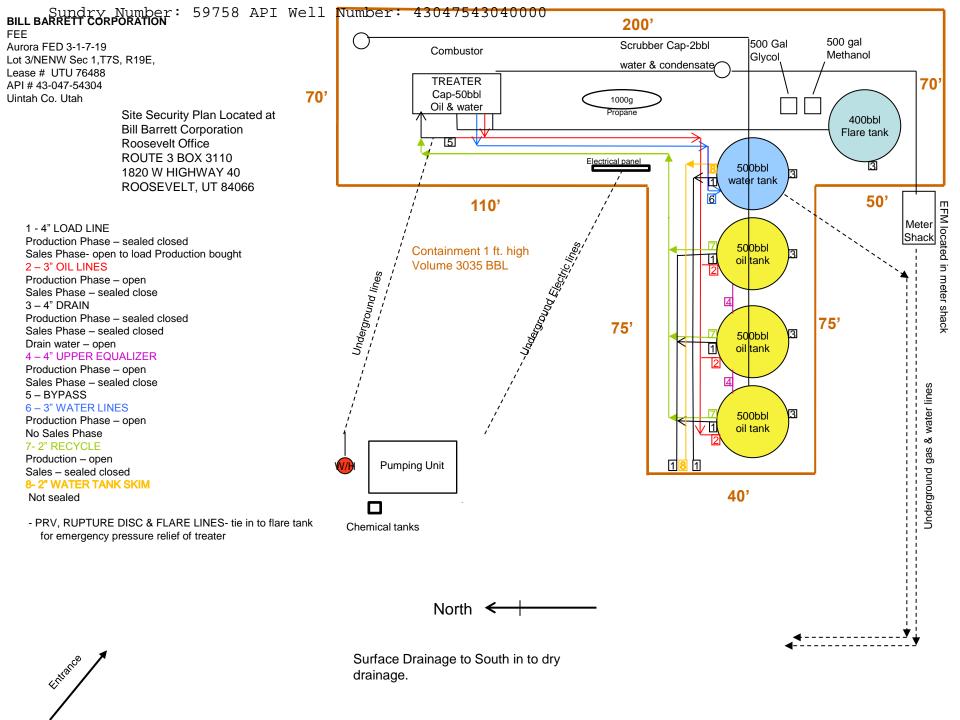
	g Dur (br)	End Time	Codo	Cotogon	Com
Start Time	Dur (hr)	End Time		Category Frac Joh	Com
6:15	1.75	18:00	FRAC	Frac. Job	FRAC STG 3 PRESSURE TEST LINES TO 7500 PSI. OPEN WELL W/ 1530 PSI AT 16:30 BREAK DOWN 2020 PSI AT 11:3 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11:5 BPM AT 1764 PSI. FLUSH W/ 7312 GAL. 32:3 BPM AT 2720 PSI. BALL OUT (MAX PRESSURE 5387 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN. ISIP 2348, FG .75, MR 75 BPM, AR 73.4 BPM, MP 3643 PSI (ON FINAL FLUSH 3370 PSI), AP 3317 PSI 100 MESH 8,100 LBS 0.75PPG 30/50 WHITE 149,800 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 3062 BBLS, 20# GEL 909 BBLS, 20# HYBOR 850 BBL.BTR 5100 BBLS. STAGE SCORE 10
					SHUT IN AND TURN OVER TO CUTTERS
18:00	1.25	19:15	PFRT	Perforating	PERF STG #4- PU HES 5-1/2" 10K CFP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE (WITH METHANOL) 2100 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6846'-6859'. RUN DOWN AND SET 5-1/2" CBP AT 7231' WITH 1950 PSI. PULI UP AND PERF TGR3/DOUGLAS CREEK FORM 6958'-7211' WITH 45 HOLES IN 15' NET. END PERFS WITH 1750 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN.
10.15	10.71	22.22	1.00		TURN WELL OVER TO HES.
9:15		06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.
Auror	a 03-1-7			2014 06:00 - 12/25/	
3-047-5			State/Province Jtah	1 1	eld Name Well Status Total Depth (ftKB) Primary Job Type urora PRODUCING 8,669.0 Drilling & Completion
Time Log	Dur (hr)	End Time	Code	Category	Com
06:00		08:00	DTIM	Downtime	CREW HAD TO GET THERE 10 HRS OFF LAST NIGHT
08:00	2.00	10:00	SMTG	Safety Meeting	AOL 08:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA, OVER HEAD LOADS, PICKING UP LAYING DOWN GUNS. ICE PLUGS
	1.50	11.20	FDAC	Fron Joh	
10:00	1.50	11:30	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7550 PSI. OPEN WELL W/ 1512 PSI AT 9:30 AM BREAK DOWN 3462 PSI AT 11.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1470 PSI. FLUSH W/ 7041 GAL. 27.4 BPM AT 1650 PSI. BALL OUT (MAX PRESSURE 3702 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 15 MIN. ISIP 1807, FG .69, MR 73.1 BPM, AR 62.5 BPM, MP 6148 PSI (ON FINAL FLUSH 2700 PSI), AP 3223 PSI 100 MESH 8,300 LBS 0.75PPG 30/50 WHITE 149,560 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 4845 BBLS, 20# GEL 1546 BBLS, BTR 5115 BBLS. STAGE SCORE 10 "BLENDER DIED 23,872 GALS INTO .8-1.5PPG RAMP. HALLIBURTON HAS NOT FIGURED OUT FOR SURE WHY IT DIED. STARTED IT BACK UP PUMP ZONE TO COMPLETION. NEVER SEEN A GOOD XLINK SAMPLE DURING HYBOR STG DID NOT SEE ANY PH CHANGE EITHER.
					PRESSURE TEST LINES TO 7550 PSI. OPEN WELL W/ 1512 PSI AT 9:30 AM BREAK DOWN 3462 PSI AT 11.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1470 PSI. FLUSH W/ 7041 GAL. 27.4 BPM AT 1650 PSI. BALL OUT (MAX PRESSURE 3702 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 15 MIN. ISIP 1807, FG .69, MR 73.1 BPM, AR 62.5 BPM, MP 6148 PSI (ON FINAL FLUSH 2700 PSI), AP 3223 PSI 100 MESH 8,300 LBS 0.75PPG 30/50 WHITE 149,560 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 4845 BBLS, 20# GEL 1546 BBLS, BTR 5115 BBLS. STAGE SCORE 10 "BLENDER DIED 23,872 GALS INTO .8-1.5PPG RAMP. HALLIBURTON HAS NOT FIGURED OUT FOR SURE WHY IT DIED. STARTED IT BACK UP PUMP ZONE TO COMPLETION. NEVER SEEN A GOOD XLINK SAMPLE DURING HYBOR STG DID NOT SEE ANY PH CHANGE EITHER.
11:30	2.00	13:30	SRIG	Rig Up/Down	PRESSURE TEST LINES TO 7550 PSI. OPEN WELL W/ 1512 PSI AT 9:30 AM BREAK DOWN 3462 PSI AT 11.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1470 PSI. FLUSH W/ 7041 GAL. 27.4 BPM AT 1650 PSI. BALL OUT (MAX PRESSURE 3702 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 15 MIN. ISIP 1807, FG .69, MR 73.1 BPM, AR 62.5 BPM, MP 6148 PSI (ON FINAL FLUSH 2700 PSI), AP 3223 PSI 100 MESH 8,300 LBS 0.75PPG 30/50 WHITE 149,560 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 4845 BBLS, 20# GEL 1546 BBLS, BTR 5115 BBLS. STAGE SCORE 10 "BLENDER DIED 23,872 GALS INTO .8-1.5PPG RAMP. HALLIBURTON HAS NOT FIGURED OUT FOR SURE WHY IT DIED. STARTED IT BACK UP PUMP ZONE TO COMPLETION. NEVER SEEN A GOOD XLINK SAMPLE DURING HYBOR STG DID NOT SEE ANY PH CHANGE EITHER. RDMO HES AND CUTTERS FRAC FLEET.
11:30	2.00 16.50	13:30 06:00	SRIG	Rig Up/Down Lock Wellhead & Secure	PRESSURE TEST LINES TO 7550 PSI. OPEN WELL W/ 1512 PSI AT 9:30 AM BREAK DOWN 3462 PSI AT 11.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1470 PSI. FLUSH W/ 7041 GAL. 27.4 BPM AT 1650 PSI. BALL OUT (MAX PRESSURE 3702 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 15 MIN. ISIP 1807, FG .69, MR 73.1 BPM, AR 62.5 BPM, MP 6148 PSI (ON FINAL FLUSH 2700 PSI), AP 3223 PSI 100 MESH 8,300 LBS 0.75PPG 30/50 WHITE 149,560 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 4845 BBLS, 20# GEL 1546 BBLS, BTR 5115 BBLS. STAGE SCORE 10 "BLENDER DIED 23,872 GALS INTO .8-1.5PPG RAMP. HALLIBURTON HAS NOT FIGURED OUT FOR SURE WHY IT DIED. STARTED IT BACK UP PUMP ZONE TO COMPLETION. NEVER SEEN A GOOD XLINK SAMPLE DURING HYBOR STG DID NOT SEE ANY PH CHANGE EITHER. RDMO HES AND CUTTERS FRAC FLEET. WELL SHUT IN AND SECURE. STACK FRAC WTR. MOVE OFF FRAC LINE.
11:30 3:30	2.00	13:30 06:00 '-19	SRIG	Rig Up/Down Lock Wellhead & Secure	PRESSURE TEST LINES TO 7550 PSI. OPEN WELL W/ 1512 PSI AT 9:30 AM BREAK DOWN 3462 PSI AT 11.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 11.4 BPM AT 1470 PSI. FLUSH W/ 7041 GAL. 27.4 BPM AT 1650 PSI. BALL OUT (MAX PRESSURE 3702 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 15 MIN. ISIP 1807, FG .69, MR 73.1 BPM, AR 62.5 BPM, MP 6148 PSI (ON FINAL FLUSH 2700 PSI), AP 3223 PSI 100 MESH 8,300 LBS 0.75PPG 30/50 WHITE 149,560 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 4845 BBLS, 20# GEL 1546 BBLS, BTR 5115 BBLS. STAGE SCORE 10 "BLENDER DIED 23,872 GALS INTO .8-1.5PPG RAMP. HALLIBURTON HAS NOT FIGURED OUT FOR SURE WHY IT DIED. STARTED IT BACK UP PUMP ZONE TO COMPLETION. NEVER SEEN A GOOD XLINK SAMPLE DURING HYBOR STG DID NOT SEE ANY PH CHANGE EITHER. RDMO HES AND CUTTERS FRAC FLEET. WELL SHUT IN AND SECURE. STACK FRAC WTR. MOVE OFF FRAC LINE.



Time Log	Time Log										
Start Time	Dur (hr)	End Time	Code	Category	Com						
06:00	1.50	07:30	CTRL	Crew Travel	CREW TRAVEL. HSM. FCP 150 PSI. PUMP 100 BBLS HOT WTR DOWN CSG. SICP 600 PSI.						
07:30	2.00	09:30	WLWK	Wireline	MIRU PERFORATORS. RIH W/ 5-1/2" CBP AND SET KILL PLUG AT 5010'. RDMO PERFORATORS. BLEED OFF PRESSURE AS POOH.						
09:30	1.50	11:00	BOPI	Install BOP's	RD FLOOR. ND FRAC VALVES. NU 7" 5K BOP AND HYDRIL. RU FLOOR.						
11:00	2.00	13:00	GOP	General Operations	UNLOAD 278-JTS 2-7/8" L-80 TBG & TALLY.						
13:00	2.00	15:00	RUTB	Run Tubing	MU 4-3/4" BIT, BIT SUB (WITH FLOAT), 1-JT TBG, DRAIN SUB. RIH AS MEAS AND PU TBG TO TAG KILL PLUG AT 5010' WITH 158-JTS & BHA.						
15:00	1.00	16:00	PTST	Pressure Test	RU PWR SWIVEL. FILL TBG. PRES TEST BOP AND LINES TO 2000 PSI.						
16:00	1.00	17:00	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS. PUMP 2 BPM, RETURN 2 BPM. 48/64" CHOKE. KILL PLUG AT 5010'. D/O IN 7 MIN. FCP 300 PSI. RD PWR SWIVEL. P/U 66-JTS. TALLY REMAINING TBG. DRAIN UP RIG PUMP & KELLY. TARP IN & WINTERIZE BOP. TURN OVER TO FBC FOR NIGHT. 233 JTS DRAIN 1 JT FL SUB BIT SUB BIT, EOT @ 7123'						
17:00	13.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION. 20/64" WITH 300 PSI.						

www.peloton.com Page 4/4 Report Printed: 1/5/2015

	STATE OF UTAH			F	ORM 9			
ı	DEPARTMENT OF NATURAL RESO DIVISION OF OIL, GAS, AND		ì	5.LEASE DESIGNATION AND SERIAL NU UTU76488	JMBER:			
SUNDR	Y NOTICES AND REPORT	rs on	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAI	ΛE:			
	posals to drill new wells, significar reenter plugged wells, or to drill ho n for such proposals.			7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)				
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19				
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000					
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL				COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E N	Meridian:	S	STATE: UTAH				
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE NA	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION			TYPE OF ACTION					
	ACIDIZE		ALTER CASING	CASING REPAIR				
NOTICE OF INTENT								
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	_	CHANGE TUBING	CHANGE WELL NAME				
✓ SUBSEQUENT REPORT	CHANGE WELL STATUS	□ 0	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
Date of Work Completion:	DEEPEN	☐ F	RACTURE TREAT	NEW CONSTRUCTION				
1/12/2015	OPERATOR CHANGE	☐ P	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT	PRODUCTION START OR RESUME	□ R	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	□ v	/ENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	□ s	SI TA STATUS EXTENSION	APD EXTENSION				
,		./	NTUED.					
	WILDCAT WELL DETERMINATION	• 0	OTHER	OTHER: Site security diagram				
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly sh			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONI January 12, 2015	ĽY			
NAME (PLEASE PRINT) Brady Riley	PHONE NU 303 312-8115	JMBER	R TITLE Permit Analyst					
SIGNATURE N/A			DATE 1/12/2015					



Sundry Number: 60036 API Well Number: 43047543040000

Form 3160-4 (August 2007)			DEPAR BUREAU	TMEN	T OF	TATES THE IN MANA								OM	B No. 1	PROVED 004-0137 y 31, 2010
	WELL (COMPL	ETION C	R RE	CON	/IPLETI	ON RI	EPORT	AND	LOG				ease Serial ITU76488	No.	
1a. Type of	Well	Oil Well	Gas \	Well	□ D	ry 🔲	Other						6. If	Indian, All	ottee o	r Tribe Name
b. Type of	Completion	_	ew Well	☐ Wor		_	Deepen	☐ Plu	g Back		Diff. R	esvr.	7. U	nit or CA A	Agreem	ent Name and No.
2. Name of BILL BA	Operator ARRETT CO				(Contact: (TLER					ease Name		ell No. AAL 3-1-7-19
3. Address	1099 18TI DENVER,			300				Phone N: 303-31	o. (includ 2-8597	le area	code)		9. A	PI Well No		43-047-54304
4. Location	of Well (Re	port locati	on clearly an	d in acc	ordano	ce with Fe	deral req	uirement	s)*				10. I	Field and Po	ool, or l	Exploratory OM
At surfa	Sec 1 T7S R19E Mer SLB At surface NENW 665FNL 1900FWL												11. S	Sec., T., R.,	M., or	Block and Survey S R19E Mer SLB
	rod interval i	•			FNL 1	917FWL							12. (County or F		13. State
At total	1	NW 748F	NL 1909FV	te T.D.	Reach	ned		16 Date	e Complet	ted				IINTAH Elevations (DF KI	UT B, RT, GL)*
10/02/2				/25/201		ica		□ D &			ly to Pr	od.	17. 1		10 GL	
18. Total D	epth:	MD TVD	8669 8667		19. F	Plug Back	T.D.:	MD TVD		568 566		20. Dej	oth Bri	dge Plug S		MD TVD
21. Type El MUD,C	lectric & Oth BL, TRIPLE	er Mechar COMBC	nical Logs R	un (Subi	nit co _l	py of each)			1	Was D	vell core OST run? ional Su	•	⊠ No	TYes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing ar	nd Liner Reco	ord (Repo	rt all strings											1		Γ
Hole Size	Size/G		Wt. (#/ft.)	Top (ME		Bottom (MD)	l I	Cemente Depth	Туре	of Sks of Cer		Slurry (BB		Cement	Тор*	Amount Pulled
26.000		O COND	65.0				80	80 1220	+		F20		171		2056	
12.250 7.875		525 J-55 500 I-80	24.0 17.0		_	122 866		8657	+		530 1220		171 392		2856	
	<u> </u>	000.00											002			
24. Tubing	Record											l				
Size	Depth Set (M	(ID) P	acker Depth	(MD)	Siz	e De	oth Set (I	MD)	Packer De	epth (N	AD)	Size	De	pth Set (M	D)	Packer Depth (MD)
2.875		6965						\perp L								
25. Producii								ation Rec							_	
	ormation	IV/ED	Тор	0050	Bott		I	Perforated	Interval 6958 7	FO 04	20	Size 0.3	_	No. Holes	ODE	Perf. Status
A) B)	GREEN R	IVEK		6958		8430			6958	10 84	30	0.3	80	195	OPE	N
C)																
D)																
27. Acid, Fr	acture, Treat	ment, Cer	nent Squeeze	e, Etc.												
]	Depth Interva		122 ODEEN	DIV/ED	255.0	TAOFO 4		A	mount an	d Typ	e of M	aterial				
	69	58 10 84	430 GREEN	RIVER	SEE S	TAGES 1-	4									
28. Producti	on - Interval	A														
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	N	Gas MCF	Water BBL	Corr.			Gas Gravity		Producti	ion Method	NO ED	2444511
12/24/2014 Choke	01/07/2015 Tbg. Press.	24 Csg	24 Hr.	154.0 Oil	-	31.0	223. Water	Gas:0	32.0		Well Sta	atne		FLO	WS FRO	OM WELL
Size 48/64		Csg. Press. 60.0	Rate	BBL 154	N	as ICF 31	BBL 223	Ratio				ow OW				
	tion - Interva			I 104			1 220				· · ·					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Water BBL	Oil C Corr.	Fravity API		Gas Gravity		Producti	ion Method		
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL	Gas:0 Ratio			Well Sta	atus				

⁽See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #288819 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Sundr	ry Numb	er:	60036 2	API We	ell N	Number:	: 4304	175430	400	00			
201 P		1.0											
Date First	luction - Interv	Hours	Test	Oil	Gas	Water	Oil Grav	ity	Gas		Production Method		
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. AP		Gravity				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well St	tatus	<u> </u>		
28c. Proc	luction - Interv	al D		<u> </u>			<u> </u>						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Grav Corr. AP		Gas Gravity	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well St	Status			
29. Dispo	osition of Gas(Sold, use	d for fuel, veni	ted, etc.)		·			· L				
	nary of Porous	Zones (I	Include Aquife	ers):						31. Fo	rmation (Log) Marke	ers	
tests,	all important including dept ecoveries.	zones of h interva	porosity and c il tested, cushi	ontents there	eof: Core e tool op	ed intervals an en, flowing ar	nd all drill-s nd shut-in p	tem ressures					
	Formation		Тор	Bottom		Descript	tions, Conte	ents, etc.			Name		Top Meas. Depth
32. Addii	ional remarks	(include	plugging proc	edure):						GREEN RIVER MAHOGANY TGR3 DOUGLAS CREEK BLACK SHALE FACIES CASTLE PEAK UTELAND BUTTE WASATCH			
33. Circle	was calculat and logs. First e enclosed atta ectrical/Mecha andry Notice fo	chments:	as on 12/25/2	2014, first o	il sales	th grout. Atta 01/06/2015 2. Geolog 6. Core A	tic Report	e treatmei	3. 1	DST Re	port 4	4. Direction	nal Survey
34. I here	by certify that	the fores	going and attac	ched informa	ation is co	omplete and c	correct as de	etermined fr	om all a	available	e records (see attache	d instructio	ns):
				ronic Subm	ission #2	88819 Verifi RETT CORI	ied by the I	BLM Well	Informa	ation Sy	`		**/
Name	e(please print)	CHRIS'	TINA HIRTL	ER				Title PERI	MIT AN	IALYST	-		
Signa	ture	(Electro	onic Submiss	ion)				Date <u>01/21</u>	1/2015				
Title 18 U	J.S.C. Section ited States any	1001 and false, fid	d Title 43 U.S. ctitious or frad	C. Section 1 ulent statem	212, mal ents or re	ke it a crime fe epresentations	or any perses as to any i	on knowing natter withi	gly and v	willfully isdiction	to make to any depa n.	rtment or a	gency

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

Sundry Number: 60036 API Well Number: 43047543040000

Aurora Federal 3-1-7-19 Report Continued*

	44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)										
	AMOUNT AND TYPE OF MATERIAL										
Stage	tage bbls Slurry lbs 100 Common Mesh lbs 30/50 Premium White gal 15% HCI Acid										
1	5798	7,800	150,300	4,400							
2	5217	8,100	152,200	3,900							
3											
4	5115	8,300	149,560	3,400							

^{*}Depth intervals for frac information same as perforation record intervals.



End of Well Report



Company: Bill Barrett Corporation
Project: Fort Duchesne

Site: SECTION 1 T7S, R19E
Well: Aurora Federal 3-1-7-19

Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:

Well Aurora Federal 3-1-7-19

TVD Reference: Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)
MD Reference: Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

North Reference: True

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Project Fort Duchesne

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: Utah Southern Zone

System Datum:

Mean Sea Level

Site SECTION 1 T7S, R19E

Northing: 11,149,856.73 usft Site Position: Latitude: 40° 14' 34.830 N From: Lat/Long Easting: 2,133,463.49 usft Longitude: 109° 44' 7.130 W Slot Radius: **Grid Convergence:** 1.08 ° **Position Uncertainty:** 0.0 usft 13-3/16 "

Well Aurora Federal 3-1-7-19, SHL: 40° 14' 43.980 -109° 44' 3.390

 Well Position
 +N/-S
 0.0 usft
 Northing:
 11,150,788.78 usft
 Latitude:
 40° 14' 43.980 N

 +E/-W
 0.0 usft
 Easting:
 2,133,736.22 usft
 Longitude:
 109° 44' 3.390 W

Position Uncertainty 0.0 usft Wellhead Elevation: 4,923.0 usft Ground Level: 4,910.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) 52.092 IGRF2010 11/11/2014 10.77 65.94

Design Actual
Audit Notes:

Version: 1.0 Phase: **ACTUAL** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 172.01

Survey Program Date 12/14/2014

From To

(usft) (usft) Survey (Wellbore) Tool Name Description

205.0 8,669.0 Survey #1 (Wellbore #1) MWD MWD v3:standard declination



End of Well Report



Company: Project:

Bill Barrett Corporation

Fort Duchesne

Site: SECTION 1 T7S, R19E Well: Aurora Federal 3-1-7-19

Wellbore: Wellbore #1

Design: Actual Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:**

Database:

Well Aurora Federal 3-1-7-19

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

True

Minimum Curvature

EDM 5000.1 Single User Db

ırvey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
205.0	0.22	89.74	205.0	0.1	0.0	0.4	0.11	0.11	0.00
329.0	0.28	87.30	329.0	0.1	0.0	0.9	0.05	0.05	-1.97
419.0	0.40	94.66	419.0	0.2	0.0	1.5	0.14	0.13	8.18
542.0	0.31	145.46	542.0	0.6	-0.3	2.1	0.26	-0.07	41.30
634.0	0.44	147.40	634.0	1.1	-0.8	2.4	0.14	0.14	2.11
725.0	0.35	174.60	725.0	1.7	-1.4	2.6	0.23	-0.10	29.89
815.0	0.35	184.27	815.0	2.3	-1.9	2.6	0.07	0.00	10.74
931.0	0.40	170.77	931.0	3.0	-2.7	2.7	0.09	0.04	-11.64
1,017.0	0.44	195.43	1,017.0	3.6	-3.3	2.6	0.21	0.05	28.67
1,102.0	0.57	213.62	1,102.0	4.2	-4.0	2.3	0.24	0.15	21.40
1,150.0	0.53	204.17	1,150.0	4.6	-4.4	2.1	0.21	-0.08	-19.69
1,216.0	0.40	190.79	1,216.0	5.1	-4.9	1.9	0.26	-0.20	-20.27
1,301.0	0.31	201.98	1,301.0	5.6	-5.4	1.8	0.13	-0.11	13.16
1,387.0	0.31	225.95	1,387.0	5.9	-5.8	1.5	0.15	0.00	27.87
1,473.0	0.40	194.27	1,473.0	6.3	-6.2	1.3	0.25	0.10	-36.84
1,559.0	0.49	201.27	1,559.0	6.9	-6.8	1.1	0.12	0.10	8.14
1,645.0	0.31	179.98	1,645.0	7.5	-7.4	0.9	0.27	-0.21	-24.76
1,734.0	0.31	199.38	1,734.0	7.9	-7.9	0.9	0.12	0.00	21.80
1,820.0	0.40	192.77	1,820.0	8.4	-8.4	0.7	0.11	0.10	-7.69
1,905.0	0.71	168.49	1,905.0	9.2	-9.2	0.8	0.45	0.36	-28.56
1,991.0	0.80	44.79	1,991.0	9.4	-9.3	1.3	1.55	0.10	-143.84
2,076.0	1.41	340.97	2,075.9	8.0	-7.9	1.4	1.50	0.72	-75.08
2,162.0	1.41	328.67	2,161.9	6.0	-6.0	0.5	0.35	0.00	-14.30
2,248.0	1.10	321.36	2,247.9	4.3	-4.4	-0.6	0.40	-0.36	-8.50
2,333.0	1.10	309.68	2,332.9	3.0	-3.3	-1.7	0.26	0.00	-13.74
2,422.0	1.10	301.09	2,421.9	1.8	-2.3	-3.1	0.19	0.00	-9.65

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RECEIVED: Jan. 21, 2015



End of Well Report



Company: Project: Site:

Bill Barrett Corporation

Fort Duchesne

SECTION 1 T7S, R19E Aurora Federal 3-1-7-19

Well: Wellbore:

Wellbore #1

Design:

Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Aurora Federal 3-1-7-19

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

True

Minimum Curvature

EDM 5000.1 Single User Db

1									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
2,509.0	1.02	303.55	2,508.9	0.8	-1.4	-4.5	0.11	-0.09	2.83
2,595.0	0.71	291.88	2,594.8	0.0	-0.8	-5.6	0.41	-0.36	-13.57
2,681.0	0.62	270.99	2,680.8	-0.3	-0.6	-6.6	0.30	-0.10	-24.29
2,769.0	0.71	264.47	2,768.8	-0.4	-0.6	-7.6	0.13	0.10	-7.41
2,855.0	0.49	267.07	2,854.8	-0.5	-0.7	-8.5	0.26	-0.26	3.02
2,940.0	0.49	253.76	2,939.8	-0.5	-0.8	-9.2	0.13	0.00	-15.66
3,026.0	0.62	251.95	3,025.8	-0.3	-1.1	-10.0	0.15	0.15	-2.10
3,111.0	0.88	51.75	3,110.8	-0.6	-0.8	-9.9	1.74	0.31	188.00
3,196.0	0.71	50.08	3,195.8	-1.2	-0.1	-9.0	0.20	-0.20	-1.96
3,282.0	0.62	72.55	3,281.8	-1.5	0.4	-8.2	0.32	-0.10	26.13
3,367.0	0.71	60.48	3,366.8	-1.8	0.8	-7.3	0.20	0.11	-14.20
3,453.0	0.62	73.79	3,452.8	-2.1	1.2	-6.3	0.21	-0.10	15.48
3,538.0	0.71	76.47	3,537.8	-2.2	1.4	-5.4	0.11	0.11	3.15
3,630.0	0.49	113.67	3,629.8	-2.0	1.4	-4.5	0.47	-0.24	40.43
3,715.0	0.71	119.57	3,714.8	-1.5	1.0	-3.7	0.27	0.26	6.94
3,802.0	0.71	119.48	3,801.8	-0.9	0.5	-2.7	0.00	0.00	-0.10
3,887.0	1.02	129.27	3,886.8	0.0	-0.3	-1.7	0.40	0.36	11.52
3,972.0	1.19	125.26	3,971.7	1.2	-1.2	-0.4	0.22	0.20	-4.72
4,057.0	0.40	24.39	4,056.7	1.5	-1.5	0.4	1.56	-0.93	-118.67
4,143.0	2.12	336.96	4,142.7	-0.3	0.3	-0.1	2.18	2.00	-55.15
4,228.0	1.50	336.08	4,227.7	-2.8	2.7	-1.1	0.73	-0.73	-1.04
4,316.0	0.80	311.27	4,315.7	-4.4	4.2	-2.0	0.96	-0.80	-28.19
4,401.0	0.49	281.26	4,400.6	-5.0	4.6	-2.9	0.53	-0.36	-35.31
4,488.0	0.31	38.36	4,487.6	-5.3	4.9	-3.1	0.79	-0.21	134.60
4,576.0	0.22	100.58	4,575.6	-5.4	5.1	-2.8	0.32	-0.10	70.70
4,661.0	1.02	79.87	4,660.6	-5.4	5.2	-1.9	0.96	0.94	-24.36
4,747.0	1.19	106.57	4,746.6	-5.0	5.0	-0.2	0.62	0.20	31.05

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End of Well Report



Company: Project: Bill Barrett Corporation

Fort Duchesne

Site: SECTION 1 T7S, R19E
Well: Aurora Federal 3-1-7-19

Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:

T/D D (

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Aurora Federal 3-1-7-19

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330) Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

True

Minimum Curvature

EDM 5000.1 Single User Db

у									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,833.0	1.41	112.79	4,832.6	-4.1	4.4	1.6	0.30	0.26	7.23
4,919.0	1.59	133.28	4,918.6	-2.6	3.1	3.4	0.65	0.21	23.83
5,005.0	1.41	122.17	5,004.5	-1.0	1.8	5.2	0.40	-0.21	-12.92
5,093.0	1.59	117.37	5,092.5	0.4	0.6	7.2	0.25	0.20	-5.45
5,182.0	1.41	129.18	5,181.5	1.9	-0.6	9.1	0.40	-0.20	13.27
5,270.0	1.90	142.09	5,269.4	4.0	-2.5	10.9	0.70	0.56	14.67
5,356.0	1.90	138.87	5,355.4	6.4	-4.7	12.7	0.12	0.00	-3.74
5,442.0	2.12	145.75	5,441.3	9.0	-7.1	14.5	0.38	0.26	8.00
5,529.0	2.21	139.18	5,528.3	11.9	-9.7	16.5	0.30	0.10	-7.55
5,615.0	2.21	147.16	5,614.2	14.8	-12.3	18.5	0.36	0.00	9.28
5,700.0	2.52	160.56	5,699.1	18.1	-15.4	20.0	0.74	0.36	15.76
5,785.0	1.19	178.05	5,784.1	20.8	-18.1	20.7	1.68	-1.56	20.58
5,870.0	1.81	163.07	5,869.1	23.0	-20.3	21.1	0.86	0.73	-17.62
5,956.0	1.41	163.68	5,955.0	25.4	-22.6	21.8	0.47	-0.47	0.71
6,041.0	0.40	194.88	6,040.0	26.7	-23.9	22.0	1.28	-1.19	36.71
6,128.0	1.02	188.58	6,127.0	27.7	-24.9	21.8	0.72	0.71	-7.24
6,206.0	1.28	176.46	6,205.0	29.2	-26.5	21.8	0.45	0.33	-15.54
6,292.0	1.02	186.07	6,291.0	30.9	-28.2	21.7	0.38	-0.30	11.17
6,378.0	1.41	186.78	6,377.0	32.7	-30.0	21.5	0.45	0.45	0.83
6,462.0	0.80	219.56	6,461.0	34.1	-31.5	21.0	1.02	-0.73	39.02
6,549.0	1.41	204.67	6,547.9	35.4	-32.9	20.2	0.77	0.70	-17.11
6,635.0	1.59	197.48	6,633.9	37.4	-35.0	19.4	0.30	0.21	-8.36
6,721.0	1.90	183.38	6,719.9	39.9	-37.6	19.0	0.61	0.36	-16.40
6,806.0	1.50	194.88	6,804.8	42.3	-40.1	18.6	0.62	-0.47	13.53
6,892.0	0.88	212.95	6,890.8	43.8	-41.7	17.9	0.83	-0.72	21.01
6,978.0	0.71	205.37	6,976.8	44.7	-42.7	17.4	0.23	-0.20	-8.81
7,065.0	1.41	175.89	7,063.8	46.3	-44.3	17.2	0.99	0.80	-33.89

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RECEIVED: Jan. 21, 2015

Sundry Number: 60036 API Well Number: 43047543040000



Payzone Directional

End of Well Report



Company: Project:

Bill Barrett Corporation

Site:

Fort Duchesne SECTION 1 T7S, R19E

Well:

Aurora Federal 3-1-7-19

Wellbore:

Wellbore #1

Design:

Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Aurora Federal 3-1-7-19

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

Aurora Federal 3-1-7-19 @ 4923.0usft (CAPSTAR 330)

True

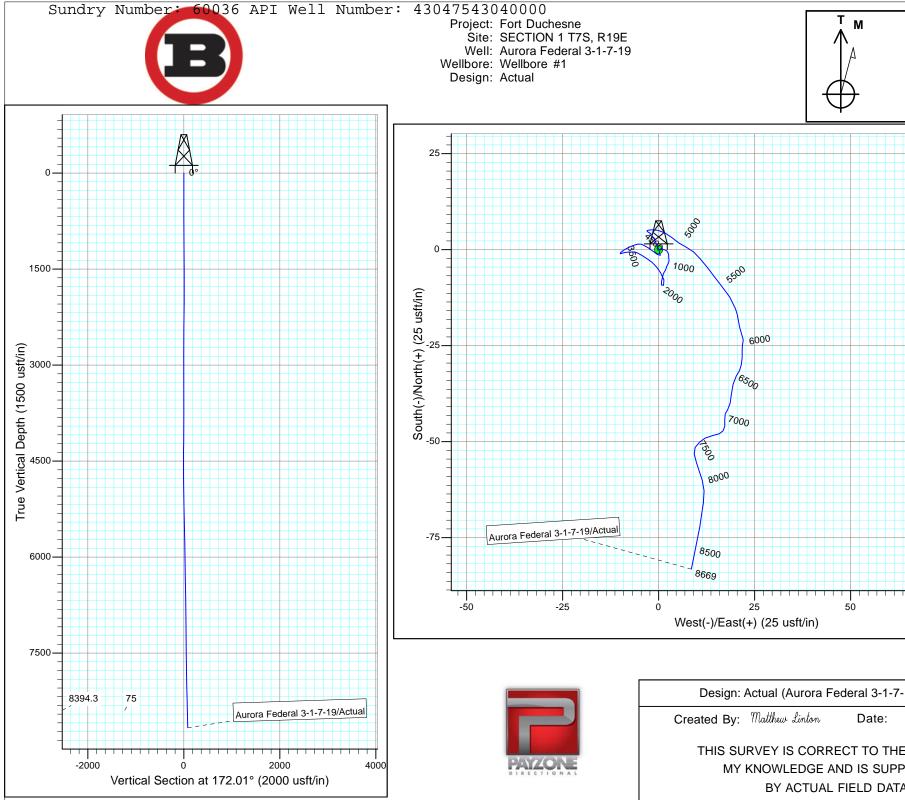
Minimum Curvature

EDM 5000.1 Single User Db

MD	Inc	Azi (azimuth)	TVD	V. Sec	N/S	E/W	DLeg	Build	Turn
usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
7,150.0	0.88	185.28	7,148.8	47.9	-46.0	17.2	0.66	-0.62	11.05
7,236.0	0.88	216.17	7,234.8	49.1	-47.2	16.8	0.54	0.00	35.92
7,322.0	0.88	247.76	7,320.8	49.7	-48.0	15.8	0.56	0.00	36.73
7,408.0	1.50	259.88	7,406.7	49.9	-48.4	14.0	0.77	0.72	14.09
7,494.0	1.28	240.05	7,492.7	50.3	-49.1	12.1	0.61	-0.26	-23.06
7,579.0	1.19	228.46	7,577.7	51.1	-50.2	10.6	0.31	-0.11	-13.64
7,666.0	1.19	208.99	7,664.7	52.4	-51.5	9.5	0.46	0.00	-22.38
7,751.0	1.28	168.27	7,749.7	54.0	-53.2	9.3	1.02	0.11	-47.91
7,837.0	1.59	164.57	7,835.6	56.2	-55.3	9.8	0.38	0.36	-4.30
7,923.0	1.68	158.88	7,921.6	58.6	-57.7	10.6	0.22	0.10	-6.62
8,009.0	1.68	164.26	8,007.6	61.0	-60.1	11.4	0.18	0.00	6.26
8,094.0	2.12	174.97	8,092.5	63.9	-62.8	11.8	0.66	0.52	12.60
8,179.0	2.21	191.49	8,177.4	67.0	-66.0	11.6	0.74	0.11	19.44
8,268.0	2.21	185.67	8,266.4	70.3	-69.4	11.1	0.25	0.00	-6.54
8,344.0	1.99	191.27	8,342.3	72.9	-72.1	10.7	0.40	-0.29	7.37
8,396.0	1.99	191.27	8,394.3	74.6	-73.9	10.4	0.00	0.00	0.00
Additional proje	ection to 8669 ft N	ID requested by client							
8,669.0	1.99	191.27	8,667.1	83.6	-83.2	8.5	0.00	0.00	0.00

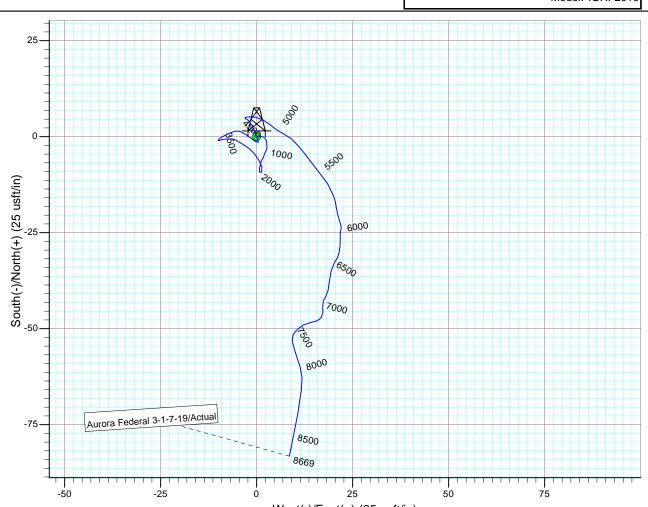
Design Annotations					
Meas		Vertical	Local Coordina	ites	
Dej		Depth	+N/-S	+E/-W	
(us	sft)	(usft)	(usft)	(usft)	Comment
8	,396.0	8,394.3	-73.9	10.4	Additional projection to 8669 ft MD requested by client

Checked By: Approved By: Date:



Azimuths to True North Magnetic North: 10.77°

Magnetic Field Strength: 52091.7snT Dip Angle: 65.94° Date: 11/11/2014 Model: IGRF2010



Design: Actual (Aurora Federal 3-1-7-19/Wellbore #1)

16:04, December 14 2

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA

	STATE OF UTAH		FORM 9		
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488		
SUNDF	RY NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly deo reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19		
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43047543040000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		HONE NUMBER: 3 312-8134 Ext	9. FIELD and POOL or WILDCAT: MOFFAT CANAL		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 01 Township: 07.0S Range: 19.0E Meridia	n: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
BBC is requesting due to inclement we in the summer, whe	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all go permission to leave this pit of eather conditions. BBC will corn more favorable weather convill be submitted with the date	ppen until 9/30/2015 ntinue with pit closure ditions allow. A follow	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: pit closure extension reques Depths, volumes, etc. Approved by the UManchiosic2045 Oil, Gas and Mining Date: By:		
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE			
Brady Riley	303 312-8115	Permit Analyst			
SIGNATURE N/A		DATE 1/19/2015			

Sundry Number: 66877 API Well Number: 43047543040000

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING					FORM 9
				5.LEASE DESIGNATION AND SERIAL NUMBER: UTU76488	
SUNDRY NOTICES AND REPORTS ON WELLS				6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.				7.UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: AURORA FEDERAL 3-1-7-19	
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43047543040000	
3. ADDRESS OF OPERATOR: PHONE NUMBER: 1099 18th Street Ste 2300 , Denver, CO, 80202 303 312-8134 Ext				9. FIELD and POOL or WILDCAT: MOFFAT CANAL	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0665 FNL 1900 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 01 Township: 07.0S Range: 19.0E Meridian: S				COUNTY: UINTAH	
				STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPOR	RT, OR 01	THER DATA
TYPE OF SUBMISSION	TYPE OF ACTION				
	ACIDIZE		ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME
, pp. oximulo dato no il uni statu	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		FRACTURE TREAT		NEW CONSTRUCTION
9/30/2015	OPERATOR CHANGE	ı	PLUG AND ABANDON		PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	1	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
DRILLING REPORT Report Date:	TUBING REPAIR		/ENT OR FLARE	П	WATER DISPOSAL
	WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION
nopon suio.			7.1150		
	WILDCAT WELL DETERMINATION		DIHER	OTHER	
	COMPLETED OPERATIONS. Clearly show SED AND INTERIM RECLAMA DONE ON 9/30/2015	OITA		FOR	cocepted by the Otah Division of Gas and Mining RECORD ONLY ovember 02, 2015
NAME (PLEASE PRINT)	PHONE NUM	BFR	TITLE		
Brady Riley 303 312-8115			Permit Analyst		
SIGNATURE N/A			DATE 10/13/2015		